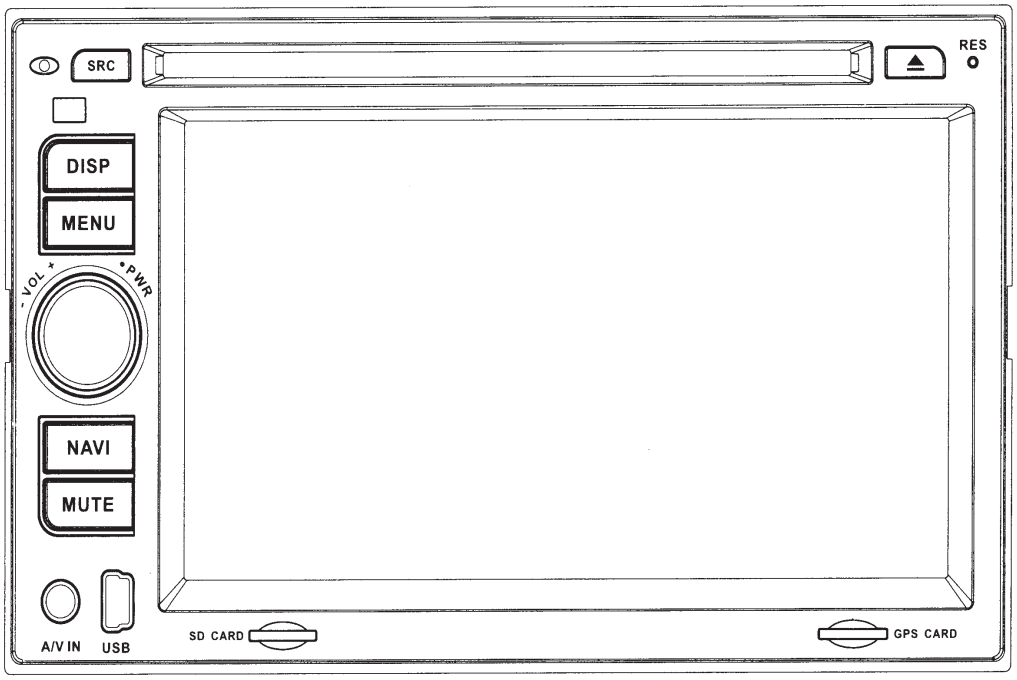
Multimedia Player With Navigation

METRA OE RADIOS



MDF-7313-1

Preface Merge

NavMate navigation software provides turn-by-turn route guidance while traveling to your destination. Before operating, take a few minutes to review the safety and operating instructions in this manual so you can quickly and safely become familiar with your NavMate software's many features.

This User Manual explains the NavMate software's functions, and provides details on:

- Using the control buttons
- Entering destinations
- Understanding the different screens available on your NavMate software
- Adjusting user preferences

Note: All users should read this manual prior to operating your NavMate software.

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NavMate Software User Manual Version 4.0.60 (480 x 272)

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Thank you for buying this product.
Please read through these operation instructions so you will know how to operate your model properly. After reading please keep this booklet in a safe place for future reference.

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Important Safeguards

1. Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage the vehicles electrical system.
2. Be sure to connect the speaker (-) leads to the speaker (-) terminal. Never connect the left and right channel speaker cables to each other or to the vehicle body.
3. Make sure all the connections are correct before turning on your unit.
4. When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder.
5. When installing the unit, do not block heat vents. Blocking them may result in fire.
6. Please install unit properly to reduce driver distraction.
7. Use of the unit without having the car started may drain the car battery.
8. Do not expose unit to direct sunlight, extreme high or low temperature conditions and avoid exposure to high humidity.
9. Do not put credit cards, cassettes, or watches around the unit, or they may become inoperable.
10. To avoid interference, keep your phone away from the unit when using your phone.
11. The remote control may not work properly if exposed to high temperatures or direct sunlight for prolonged periods of time.

About This Manual

This unit features a number of sophisticated functions. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This manual will help you understand the functions and operations of the unit. This manual explains remote control operation. However, in addition to those functions related with DVD/VCD/CD/MP3/MP4 operation that can only be operated by the remote control, there are also functions that can be operated on the buttons provided for the main unit. Due to continuous improvements and changes to our products the information within this user guide may contain some inaccuracies of current information due to improvements to programs and/or equipment and/or typographical errors.

Precautions

This unit can play the following discs only:

Type of disc	Label on the disc	Recorded Material	Size of disc
DVD	DVD VIDEO	Sound & moving pictures	12 cm
VCD	VIDEO CD / COMPACT disc DIGITAL VIDEO	Sound & moving pictures	12 cm
CD	COMPACT disc DIGITAL AUDIO	Sound only	12 cm
MP3	COMPACT disc DIGITAL AUDIO MP3	Sound only	12 cm
MPEG-4	COMPACT disc DIGITAL AUDIO MPEG-4	Sound & moving pictures	12 cm
NOTE: The unit is compatible with VCD1.0/1.1/2.0/3.0 version and DVCD disc.			

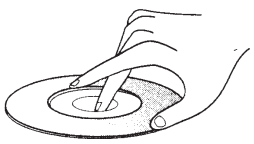
• Do not attempt to modify the unit, modifying the unit may cause permanent damage.

• Stop the vehicle before performing any operation that could interfere with your driving.

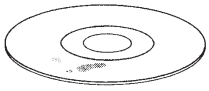
• Do not use/operate in extremely high or low temperatures. Be sure the temperature inside the vehicle is between +60° C and -10° C before turning on your unit.

• To enjoy optimum sound and images while playing, handle the discs as follows:

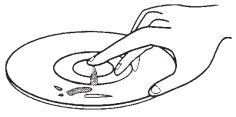
- Handle the disc by its edge to keep the disc clean, and do not touch the surface.



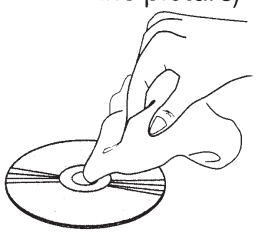
- Do not use CDs with sticky residue or ink on the surface.



- Do not use CDs with labels or stickers attached, which may leave a sticky residue when they peel off. (As shown in the picture)



- Clean the discs with an optional cleaning cloth. Wipe each disc from the center out. (As shown in the picture)



Maintenance

Replacing the Fuse

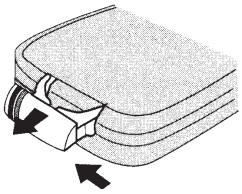
Make sure the amperage matches the specified value when replacing the fuses. If the fuse is blown, check the power connection and then replace with a new one. If the same problem occurs, then the unit is malfunctioning. In such cases, please consult the nearest service center.

Warning!
Never use a fuse with a rated amperage of more than what was supplied with your unit, otherwise it will damage the unit.

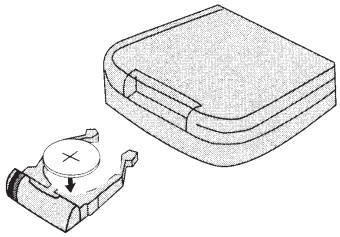
Replacing the Battery

When the range of operation of the remote control becomes short or stops operating, replace the lithium battery with a new button cell (CR2025).

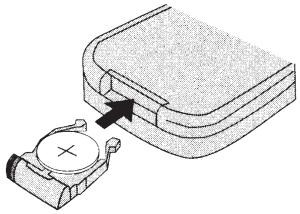
- Gently pull out the Battery Holder while pressing the Button.



- Put the battery with mark(+) upward into the Battery Holder.



- Reinsert the Battery Holder into the Remote Control.



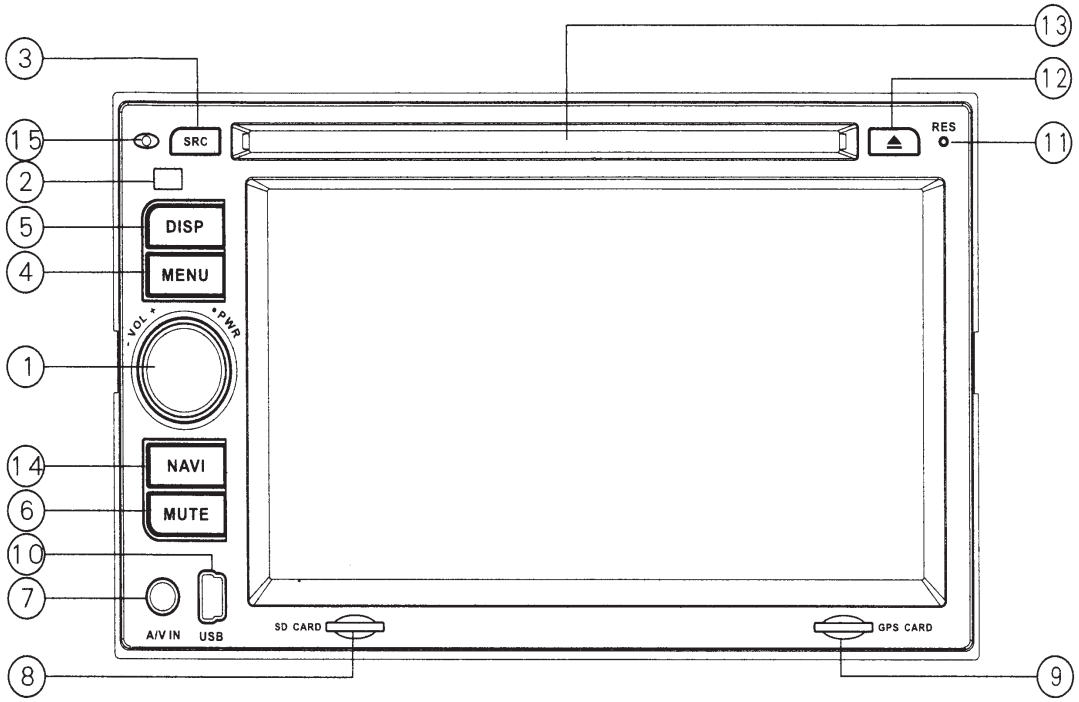
Precautions on Using Lithium Battery

Always keep the lithium battery out of children's reach. In case of swallowing, see a doctor immediately. Clean the battery with a dry cloth, to ensure proper connectivity. Make sure to check polarity when loading the battery. To prevent short circuit, do not use metal tweezers to insert or remove the battery.

Warning!
Improper handling of the battery may lead to explosion. It cannot be charged, disassembled or disposed of in a fire.

Location of the Controls

The Front Panel



① PWR/[VOL-/VOL+]
In waiting mode, briefly press this button to turn on the unit, and then press and hold it to turn off. When the unit is on, turn clockwise to increase the volume, turn counterclockwise to decrease the volume. Press to select the sound mode you want, when you select one, turn the VOL button to adjust.

② REMOTE Infrared Sensor

③ SRC
Press this button to select modes.

④ MENU Button
During playback mode, briefly press to enter the DVD setup menu;
During radio/AUX mode, briefly press it to enter the MENU, press and hold it to enter the SETTING menu.

⑤ DISP
Press this button to close display, press it again or touch the screen to resume. Press and hold it to enter the night mode.

⑥ MUTE Button
Press this button to mute, press and hold it to activate equalizer function.

⑦ A/V IN

⑧ SD CARD Slot

⑨ GPS CARD Slot(Navigation)

⑩ USB Slot

⑪ RES Button
Press this button to set the unit to initial status.

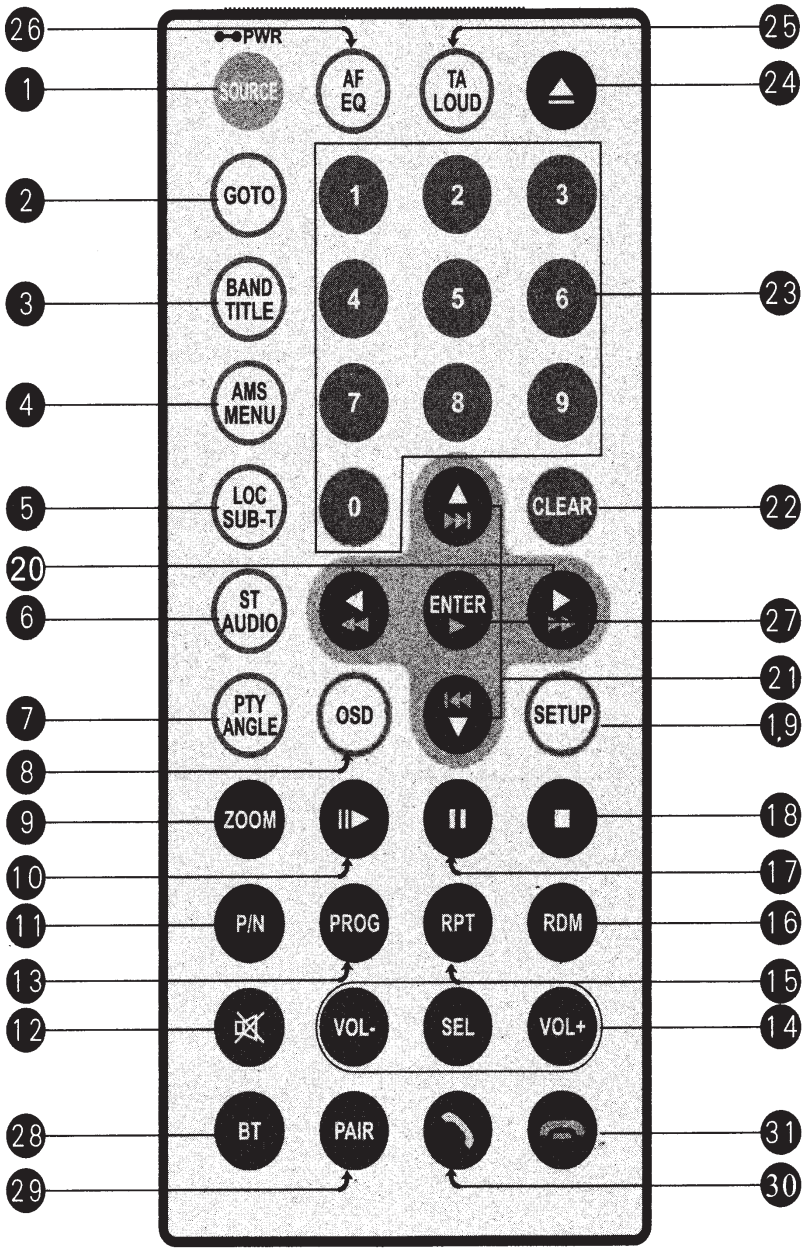
⑫ ▲ Eject Button
Press it to insert or eject a disc.

⑬ Disc Loading Slot

⑭ NAVI Button
During other modes, press this button to enter navigation mode; press it again to exit.
If you use the navigation function in the playback mode, press and hold this button to pause playing, press and hold it again to continue.

⑮ MIC (for bluetooth)

Remote Control



Tips: For more information as to replacing battery, please refer to **Replacing the Battery** on page 9.

1 **SOURCE/PWR**

2 **GO TO**(playing time/track/[press and hold it to enter/exit the NAVI])

3 **BAND/TITLE**

4 **AMS(Automatic Memory Selection)/MENU**

5 **LOC/SUB –T**

6 **ST/AUDIO**(mono or stereo/language or channel selector)

7 **PTY/ANGLE** (Program type/DVD play angle)

8 **OSD**
Press it to show the current information; in radio mode, press and hold it to show the version number.

9 **ZOOM**(zoom in or zoom out)

10 **Slow Forward/Rewind**

11 **P/N**
Press it to change the TV system, press and hold it to capture the instant likeness as a logo type.

12 **Mute**

13 **PROG**(Program playing)

14 **VOL+/VOL-/SEL**

15 **RPT**(Repeat Playing)

16 **RDM**(Playing Tracks at Random)

17 **Pause/Play**

18 **Stop Playing**

19 **SETUP**

20 **F.R/F.F**

21 **Previous/Next Track**

22 **CLEAR**

23 **0~9 Number Buttons**

24 **Eject Button**

25 **TA/LOUD** (Traffic Alarm/Loudness)

26 **AF/EQ** (Alternative Frequency/Equalizer) Button

27 **ENTER** (Left/Right/Up/Down ENTER)

28 **BT Button** (bluetooth mode)

29 **PAIR**
During bluetooth, press this button to pair.

30 During bluetooth, press to dial, redial or answer a call.

31 During bluetooth, press to hang up or ignore a call.

Specifications

General

Power Requirement	14.4 V DC
	(11-16 V allowable)
Load Impedance	4 ohms
Max.Power Output	45 W x 4
Tone Controls +/- 7dB	Bass 100 Hz
	Treble 10 KHz
Dimensions Approx.	180 x 180 x 105 mm (d/w/h)
Weight Approx.	3.2kg

FM Section

Tuning Range		
Optional	(Europe)	87.5-108 MHz
	(U.S.A.)	87.5-107.9 MHz
	(Russia)	65-74 MHz
IF Range		10.7 MHz
Usable Sensitivity (-30dB)		10 dB uV
Signal-to-noise Ratio		60 dB
Stereo Separation		30 dB (1 KHz)
Frequency Response		40 Hz - 12 KHz

AM Tuner Section

Frequency Range		
Optional	(Europe/Russian)	522-1620 KHz
	(U.S.A.)	530-1710 KHz
IF Range		450 KHz
Usable Sensitivity (-20dB)		28 dB uV

VCD/CD Player Section

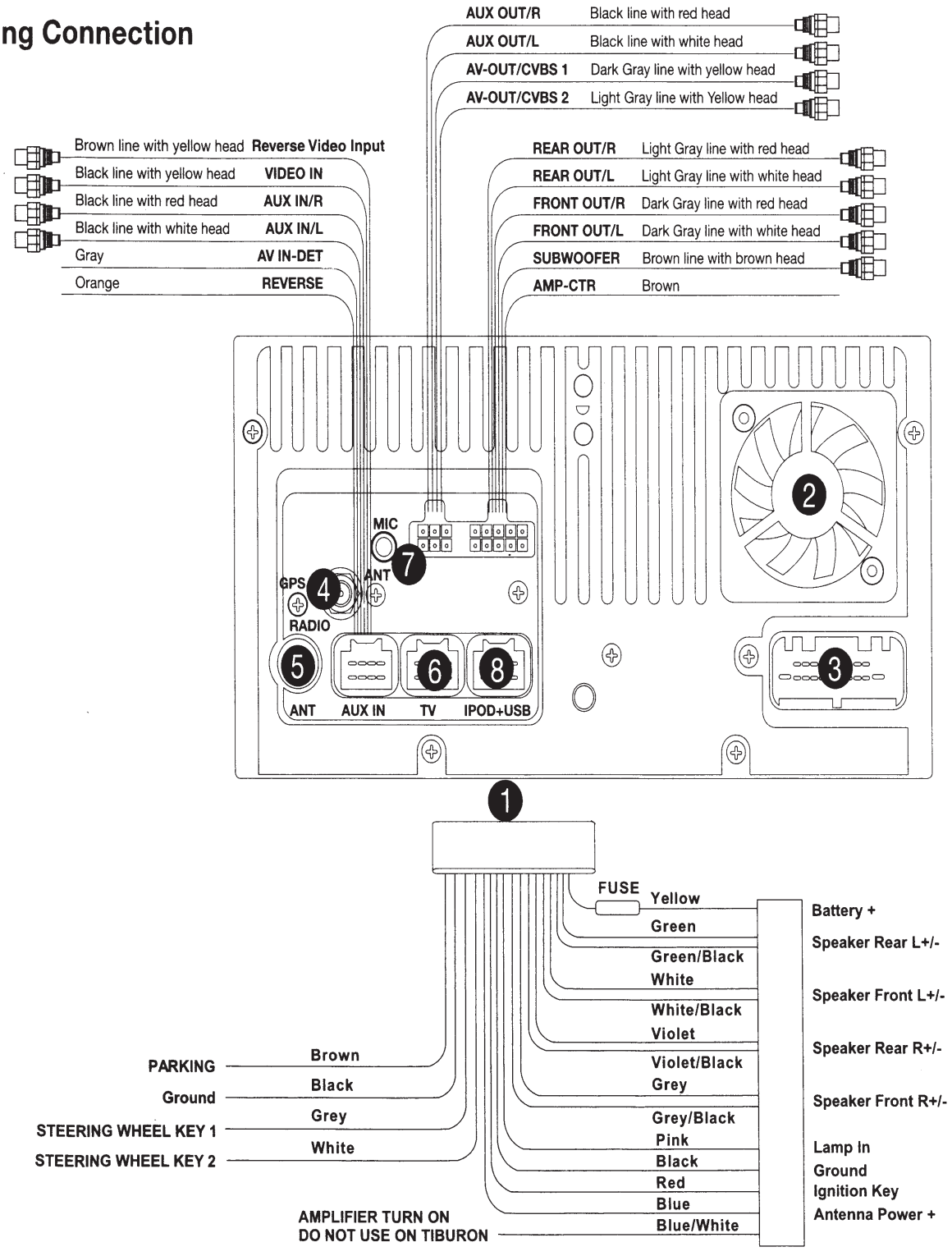
VCD Signal System	AUTO/PAL/NTSC
Signal-to-noise Ratio	60 dB
Separation	60 dB 1 KHz
Distortion	0.3%

DVD Player Section

DVD Signal System	AUTO/PAL/NTSC
Channels	2
Frequency Response	40 Hz to 16 KHz
Signal-to-noise Ratio	60 dB
Separation	60 dB

Note:
Due to continuous product improvement, specifications and design are subject to change without prior notice.

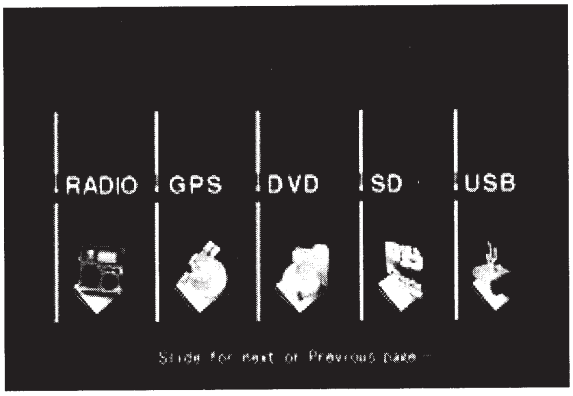
Wiring Connection



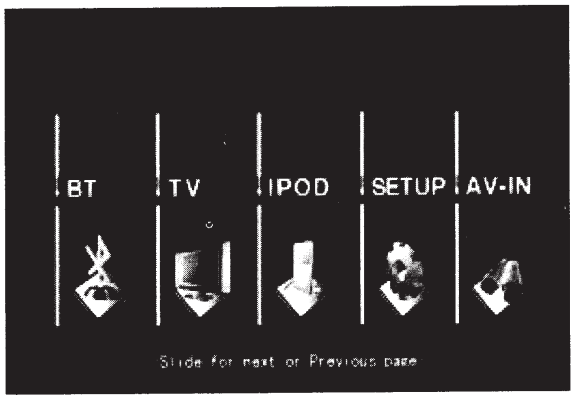
1. Output Plug(Male)
2. Fan
3. Output Socket(Female)
4. GPS antenna interface
5. Tuner Receptor
6. Socket for TV-Box
7. Microphone socket for Bluetooth
8. Socket for iPod/USB

To Select Source by Menu

In any mode, touching < on the screen shows the menu as follow:



Slide finger horizontally on the screen menu to see all options as shown in the figure below:



Click the icon for the desired mode then click SETUP to enter into the settings menu.

If you want to navigate, click the GPS icon; if it does not enter GPS mode, that means the unit does not include the function.

Note:
* If the font displays in grey, that means this function is not included.

Reset the Unit

When operating the unit for the first time or after replacing the car battery, you must reset the unit.

Press RES button in the panel with a pointed object (such as a ball point pen) to reset the unit to initial status.

Note:
* If an error occurs on the display, you can also press **RES** button to resume to normal, and it will erase the clock setting and some memorized functions.
* This function can only be operated by the main unit.

Turning the Unit On/Off

Briefly press **1 PWR** button to turn on the unit when in standby, and then press and hold it to turn off.

Note:
* Pressing PWR button on the main unit also performs the same function.

Volume Control

Press **14 VOL+** button to increase the sound level and press **14 VOL-** button to decrease the sound level.

Note:
* Pressing VOL+/- on the main unit also performs the same function.

Setting the Sound Characteristics

Repeatedly and briefly press **14 SEL** button to select the mode in the following order:

VOL → BAL → FAD
SUB ← TRE ← BAS

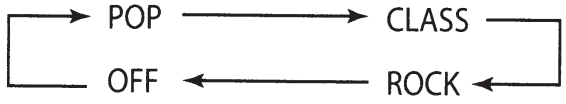
After selecting the desired mode, you can adjust the current level by pressing **14 VOL** buttons.

Note:
* Pressing SEL and VOL+/- on the main unit also performs the same function.

EQ Setting

While listening to pop music, classic music or rock music, you can adjust the sound to your liking by using **26 EQ** button.

Repeatedly press and hold **26 EQ** button to choose the following modes in order:



The default setting is OFF.

Note:
* Setting **EQ** on the **AUDIO SETUP** menu also performs the same function.

Turning Loudness On/Off

Press **25 LOUD** button to activate loud function. You can press this button to increase the low frequency, which can improve sensitivity for your ears. Press it again to quit this function.

Note:
* This function is only available on the remote control.

Insert a SD Card

Common SD Card: insert a common SD card into **SD CARD** slot and the card will be played.

Navigation SD Card: insert a navigation SD Card (with the navigation map loaded onto the SD Card) into **SD** slot, otherwise this unit's NAVI will not work.

Eject a Disc

Press **24** ⏏ button to eject or insert a disc.

Note:
* Pressing ⏏ on the main unit also performs the same function.

Mute Function

Press **12** 🔇 button to mute the unit. And " 🔇 " will appear on the LCD. Press it again to resume to previous volume level.

Note:
* Pressing **MUTE** on the main unit also performs the same function.

Mode Selector

Repeatedly press **1 SOURCE** button to select the different modes available.

Notes:
* Briefly pressing SRC on the main unit also performs the same function.

Infrared Sensor

Receptor **2** on the main unit for the remote control.

Screen Display

Briefly press **DISP** to enter the screen saver mode, press again to go back to previous status.

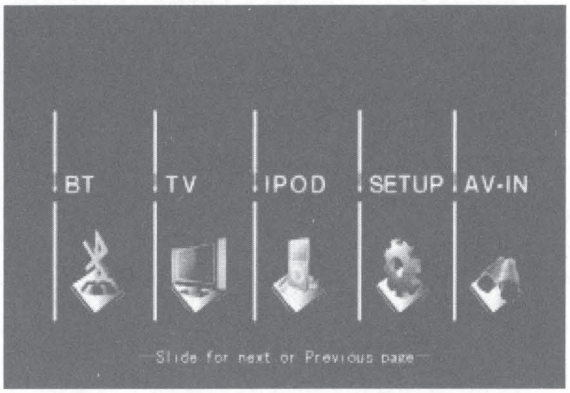
Note:
* When the unit is on black screen, touching the screen also performs the same function.

Double Function

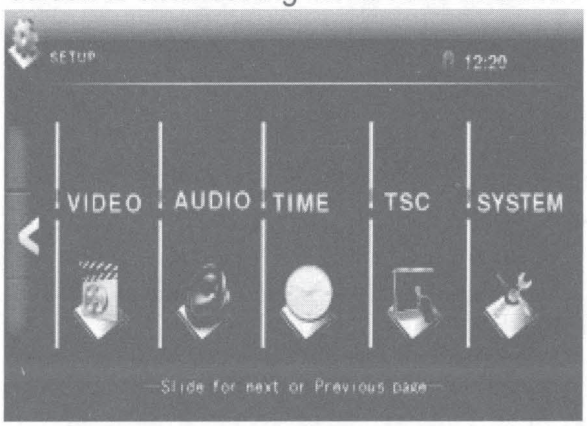
Press **NAVI** on the main unit to activate the double function, which means that the current mode remains on while using the navigation mode. Press it again to turn off this function, and go back to the previous mode.

Main Menu

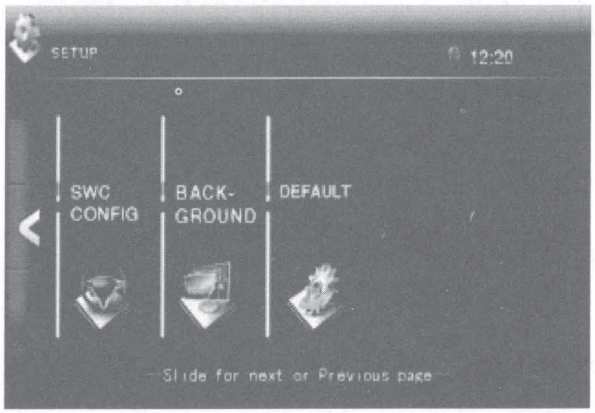
Set Up Main Menu



As shown on the above menu, press and hold **SETUP** on the remote control or click it on the screen to enter setting menu as seen below:



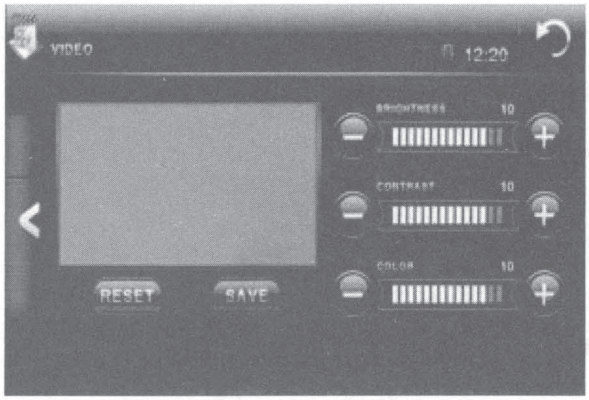
This menu includes **VIDEO**, **AUDIO**, **TIME**, **SCREEN ADJ**, **SYSTEM**, **KEY CONFIG**, **BACKGROUND**, **DEFAULT**. Click the desired item to enter corresponding setting sub menu. Slide finger horizontally on the screen menu to see all options as shown in the figure below:



Click < icon on the screen to go back to the **SOURCE** menu.

1 Video Adjust

After selecting **VIDEO**, the sub menu will be as shown in the figure below:



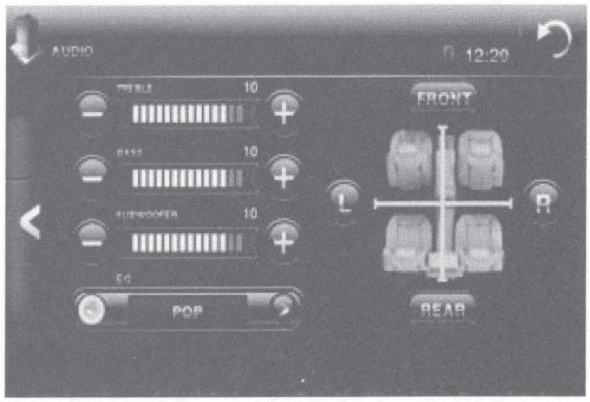
In this menu you can adjust **BRIGHTNESS**, **CONTRAST** and **COLOR**.

Click + / - to adjust the corresponding numerical value, and then click SAVE to save preferences or click **RESET** to set back to the default setting.

Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

2 Audio Adjust

After selecting **AUDIO**, the sub menu will be shown as in the figure below:



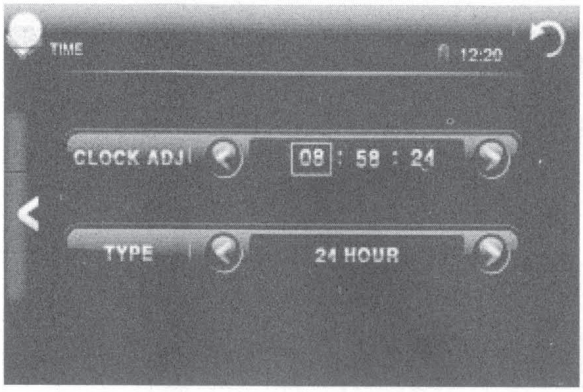
In this menu you can adjust **TREBLE**, **BASS**, **SUBWOOFER** and **EQ**.

Click + / - to adjust the corresponding numerical value, click > / < to choose your desired effect and then click **SAVE** to save preferences or click **RESET** to set back to the default setting.

Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

3 Time Adjust

After selecting **TIME**, the sub menu will be as shown in the figure below:

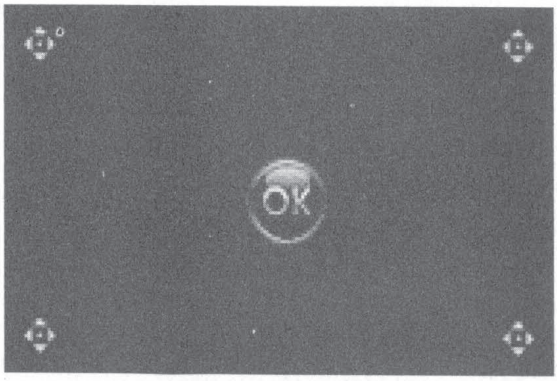


In this menu you can adjust the **CLOCK** and **TYPE**. Click the hour (minute, second) first and then click > / < to adjust the proper time. Click **SAVE** or click **RESET** to set back to the default setting.

Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

4 SCREEN ADJ

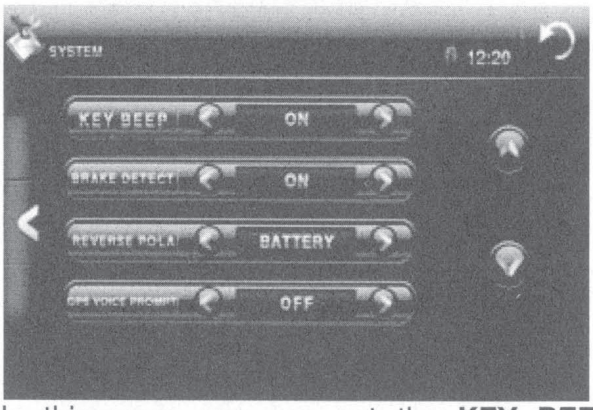
After selecting **SCREEN ADJ**, the sub menu will be as shown in the figure below:



Press **ADJ SCREEN** to display the above menu, there is a + button at the upper-left corner of the screen. Press the button at place **1**, then button at place **2**, then place **3**, then place **4**, and press last.

5 SYSTEM

After selecting **SYSTEM**, the sub menu will be as shown in the figure below:



In this menu you can set the **KEY BEEP**, **BRAKE DETECT**, **REVERSE POLARITY** and **GPS VOICE PROMPT**.

Click the > / < to choose your desired selection. Click ^ / ˅ to change page as shown in the figure below:

In this menu you can set the **AMS**, **LOCAL AREA**, **PANEL LIGHT**, **BACK UP DETECTOR**.

Click the > / < to choose your desired selection. Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

KEY BEEP: The key beeps when set **ON**, silent when set OFF.

BRAKE DETECT: Brake is detected when set **ON**, when set **OFF** brake is not detected.

Main Menu

REVERSE POLARITY: Reversed signal is sent to the unit +12 V when set to **BATTERY**, 0 V when set to **GROUND**.

GPS VOICE PROMPT: GPS voice prompt is heard only during navigate mode when set **OFF**, heard during any mode when set **ON**.

Note:
*If GPS voice volume is too low adjust the volume on the map.

AMS FULL: All the pre-existing radio deposit expires no longer allowed to save a new radio when set **ON**; searching and then recover all of the stored radio stations when set **OFF**.

LOCAL AREA: Depending on your area choose Europe, America or RUSSIA, in order to search radio stations in your area.

PANEL LIGHT: The front panel button light is not controlled by the cars headlights, as long as the unit's working, the panel light is lit when set **OFF**; the panel light will be controlled by the cars headlight when set **ON**.

REVERSE CAMERA DETECT: The unit will not operate while in reverse when set **OFF**; if you choose 10, 15 or 20 seconds then the unit would start automatically while in reverse, and then turn off after 10, 15 or 20 seconds of driving forward.

6 KEY CONFIG

After selecting **KEY CONFIG**, the sub menu will be as shown in the figure below:

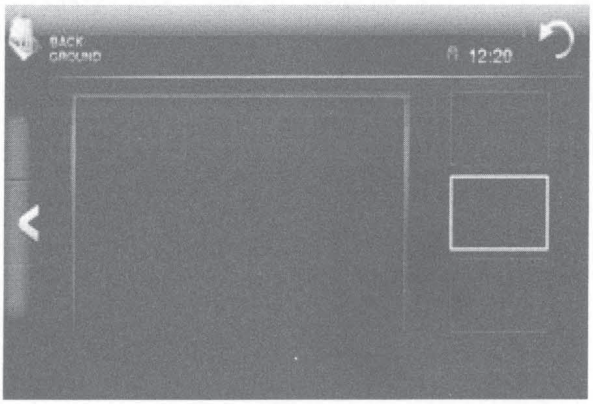
You can set the steering wheel buttons to the features on the menu. For example, press a steering wheel button first, and then select **VOL +** on this menu, after saving, you can press the steering wheel button to increase the volume.

Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

Notes:
*There is a default setting for the steering wheel buttons. They will need to be reprogrammed if set to default.
*According to the prompt that appears on the screen, press button to set, there will be a corresponding voltage display.

7 BACKGROUND

After selecting **BACKGROUND**, the submenu will be as shown in the figure below:

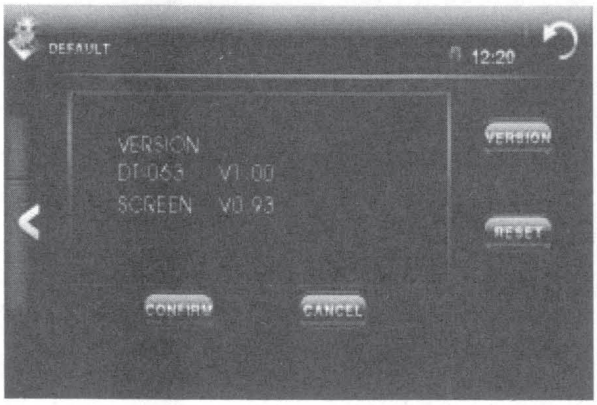


You can select different background pictures on this menu. Click a background in the right side to preview, hold it to save.

Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

8 DEFAULT

After selecting **DEFAULT**, the sub menu will be as shown in the figure below:



Click "**VERSION**" to display the information of current version, different models show different data.

Pressing "**RESET**" will prompt a reset, pressing "**CONFIRM**" will reset unit to factory settings.

Click < to go back to the **SOURCE** menu, click ↩ to go back to the previous menu.

Safety Information and Precautions

WARNING! Please read and follow the following safety precautions. Failure to follow the instructions below may increase your risk of collision and personal injury.

The Please Drive Safely screen is displayed each time the NavMate software is turned ON as a reminder to make use of the system's navigational aids in a safe manner.

Before using the NavMate software, read this entire manual. Make sure that you are familiar with the system's features and know how to operate the system. Proper use of the NavMate software includes the following guidelines:

The NavMate software is not a substitute for your personal judgment. The route suggestions should never supersede any local traffic regulation or your personal judgment and /or knowledge of safe driving practices. Prior to completing any maneuvers suggested by your NavMate software (for example, a U-turn or a left turn), verify that you can legally and safely complete the maneuver. Do not follow route suggestions if they direct you to perform an unsafe or illegal maneuver, would place you in an unsafe situation, or would route you into an area that you consider unsafe.

Glance at the screen only when necessary and safe to do so. Let the computer voice guide you. If prolonged viewing is necessary, pull off the road to a safe location.

Do not use the NavMate software to locate emergency services (such as police, fire stations, hospitals, and clinics). The database may not include all emergency service providers. Use your own best judgment and ask for directions in these situations.

If the vehicle is in motion, only a passenger should program the NavMate software. The driver should not program the system unless the vehicle is parked in a safe location.

The NavMate software's map database provides information on suggested routes without regard to factors that may affect your driving experience or the time required to arrive at your destination. For example, the system does not reflect road detours, closures or construction, some road characteristics (e.g., road surface, slope or grade, weight or height restrictions, etc.), temporary traffic congestion, weather conditions, and similar factors.

Introduction to Your NavMate Software

NavMate software provides turn-by-turn visual and voice assistance to direct you to your selected destination. The software quickly calculates step-by-step directions to any destination available on the included navigation map.

The NavMate software uses Global Positioning System (GPS) satellites, and a digital roadway map database to calculate and display travel directions. The system's GPS antenna receives signals from a constellation of 24 satellites orbiting the earth and uses the strongest of signals, to determine your position to within meters.

Vehicle Position

The NavMate software's computer considers vehicle speed and heading changes, together with longitude and latitude information, to accurately determine vehicle heading and position on a digital map.

Signals from GPS satellites are used to determine the vehicle location. Three (good) or four (best) satellites must be received to accurately determine location. The GPS reception status is indicated by the GPS symbol on the map.

Map and Information Database

The map database used by your NavMate software was created using high-resolution aerial and land based data collection.

Car navigation maps are frequently updated. While the database was judged to be as accurate as possible at the time of its release, a map database can never be 100% accurate. Road information that is maintained in the map databases, such as turn restrictions or road names may change over time.

NavMate Software Operation

Quick Start

Follow these four easy steps and you are on your way.

Before operating your NavMate software, please carefully read and follow the instructions provided in the "Safety Information and Precautions" section of this manual.

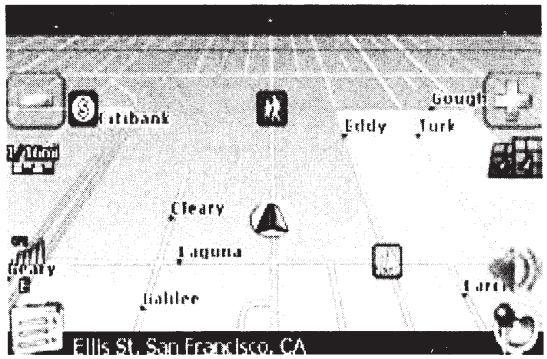
Step 1 -- Start up/Main Menu

After the NavMate software starts, you will see the reminder warning to use your NavMate software safely and lawfully.

Warning Screen

Map provider logo will be displayed on the splash screen.

Main Map Screen



This screen has TMC icon but TMC feature may not be available on certain navigation units.

Step 2 -- Select Destination

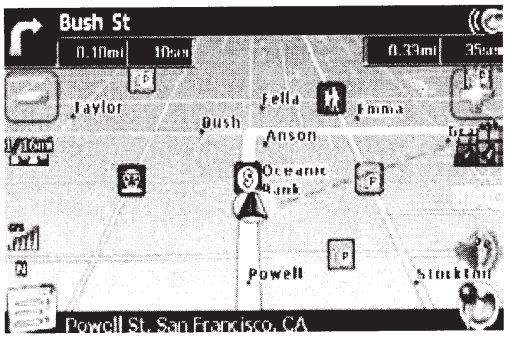
You have many ways to select a destination. For this example, let's find a nearby Airport.

Select by touching screen:

- icon (F3) to activate main menu.
- Go To...
- Point of Interest
- State or Province or Country NOTE: The software remembers the last State/Province, so this step is not necessary every time.
- Category
- Airport
- Click on Check Mark
- Sort by Distance
- Select one of these and the system will calculate a route to that destination using the criteria set in the Setup menu.

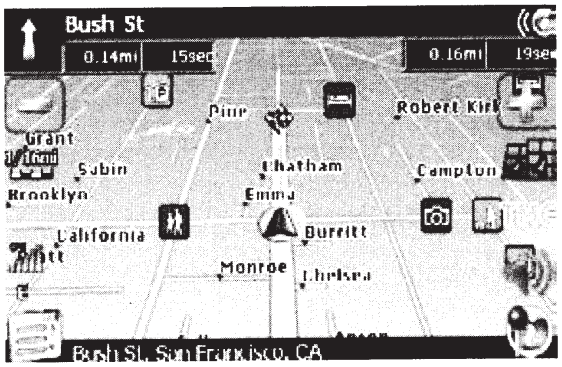
Step 3 -- Map/Guide along Route

Proceed to the highlighted route and drive while the NavMate software provides audible and visual guidance to your destination.



Step 4 -- Arrive at Destination

That's it! You've arrived at the selected destination. Refer to the rest of this manual to become more familiar with the many options available on your NavMate software.



Using Your NavMate Software

The best way to learn about this product is to explore it, while observing the safety precautions discussed earlier.

Function Buttons

The buttons on the bottom of the display are called function buttons. These buttons change labels and function depending on the screen displayed.

The list below provides a brief description of the function buttons.

Function Buttons

Zoom in the map to show a smaller area.

Zoom out the map to show a larger area.

Return to Map mode.

Display menu, jump to main menu.

Display map in 3D view.

Display map in 2D view.

After panning map, select current panned position.

Select currently highlighted item.

Display spell mode.

Page up in displayed list.

Page down in displayed list.

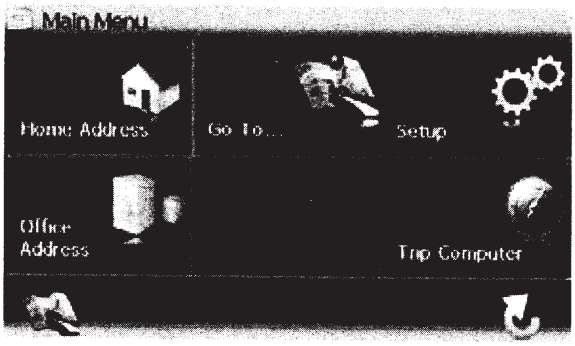
Go back one step.

Repeat voice instruction.

Navigation Menus

The table below briefly describes the Main Menu options.

Main Menu Options At-A-Glance



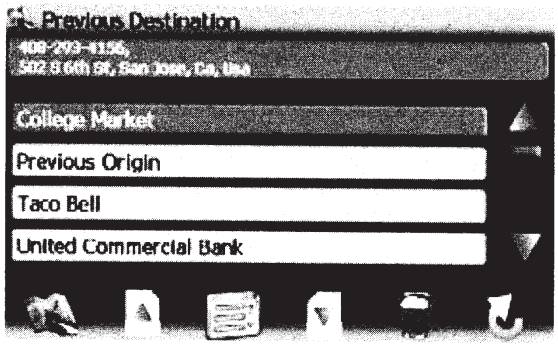
Main Menu Option	Select this Option to...
Home Address	Route to home address.
Go to...	Pick a destination for routing.
Setup	Set preferences for routing and navigation display.
Office Address	Route to office address.
Trip Computer	Display Speed, Trip, Odometer and Clock readings.

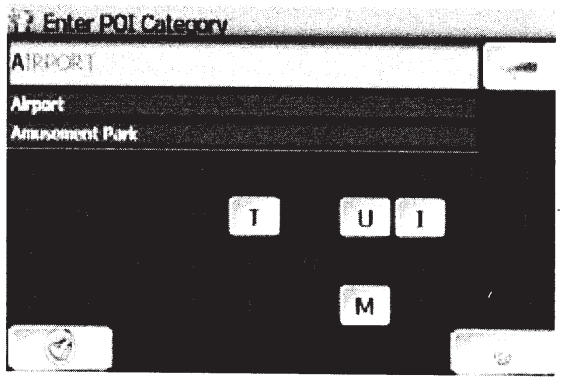
List Mode, Spell Mode, and Most Recently Used

There are five ways to select a destination. Several of the methods allow you to move through a list by scrolling using the arrow keys (List Mode) or by searching using an on screen keyboard (Spell Mode).

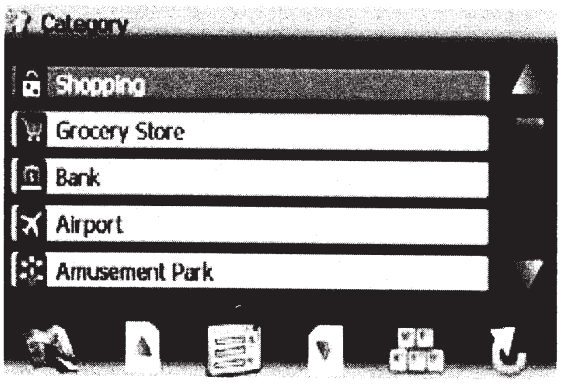
Many of the lists keep track of the last five most recently used (MRU) selections. These are placed at the top of the list in a different color and allow you to quickly select items that are used frequently. The pictures below illustrate the List Mode and Spell Mode screens.

List Mode and Spell Mode





Most Recently Used Portion of List



Spell Mode Buttons

Button	Mode	Press This Button To...
	Spell	Delete last entered character.
	Spell	Select currently input characters and show list of.matches.
	Spell	Switch keyboard from QWERTY layout to special character layout.
	Spell	Switch keyboard from special character layout to QWERTY layout.
	Spell	Quit Spell Mode and return to List Mode.

Map Screen

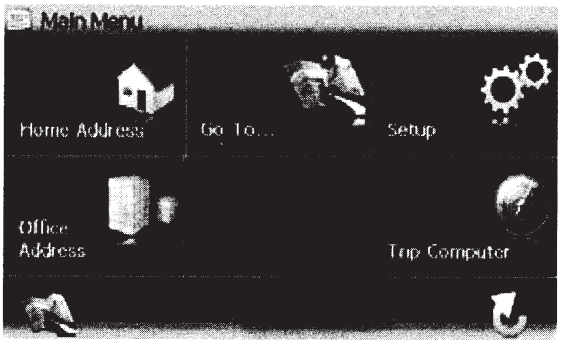
The table below explains the button functions available on the Map Screen.

Map Buttons

Button	Press This Button To...
	Show smaller map area.
	Show larger map area.
	Show Main Menu.
	Change type of map view.
	If no active route, select current location.

Destination Selection (Go To...)

To select a destination, you must select "Go To..." from the Main Menu.



The table below explains the button functions available on the Destination Selection Menu.

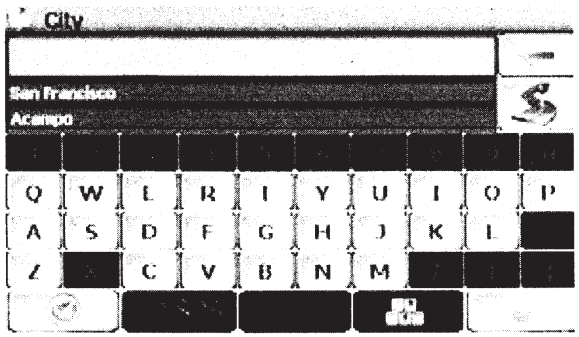
Destination Selection Buttons

Button	Press This Button To...
	Return to map mode
	Return to main menu.
	Go back one step.

Address/Intersection

If you know the street address or cross streets of your destination, use the "Address/Intersection" selection. You must select the State/Province where the destination is located. NOTE: The system remembers the last State/Province selected, so this step is not necessary every time.

Address/Intersection Selection



You may select either the Post code or City Name or the Street Name first.

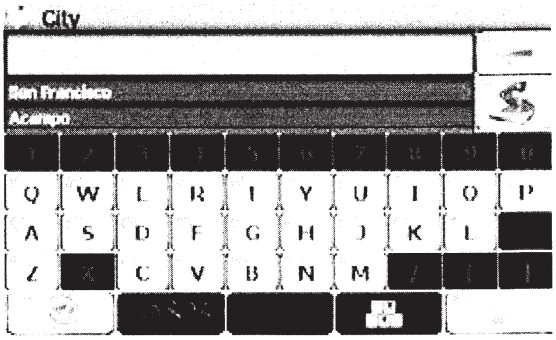
Zip code – If you know the zip code, select this option to quickly find the city.
Note: The zip code search is limited to the currently selected State/Province. Zip code searching may not be available in all areas.

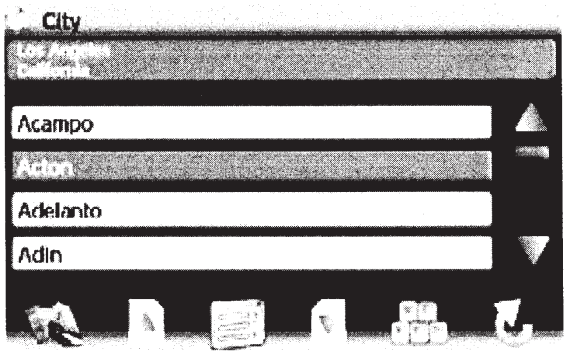
City Name – If you know the city and street, select this option. You could use the "Street Name" option instead, but it is quicker and easier to use the "City Name" option when you know both parts of the address.

Street Name – If you know the street name but you are not sure of the city, select this option. You might use this option, for example, if you were in a large metropolitan area and a street continues through multiple cities and you are not sure of which city is appropriate for the street.

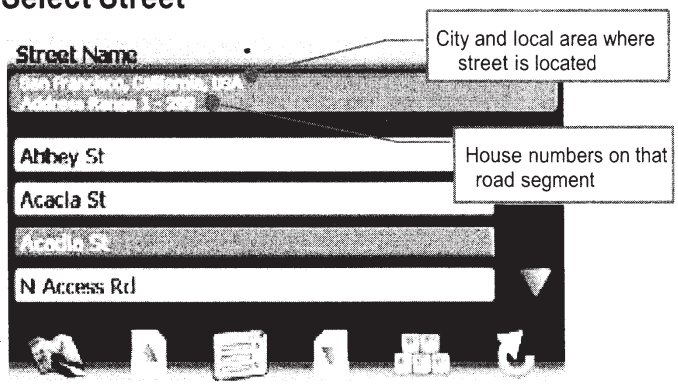
(This feature is not available on all systems. It may be disabled in order to meet 2GB limits.)

Select City





Select Street



If you selected the "City Name" option, continue by following the prompts on the display screen to select a city first, then street, then address number or intersection. If you selected the "Street Name" option, follow the prompts to select a street name, then a city, then a street address or intersection.

Select State or Province/City/Street List Mode Buttons

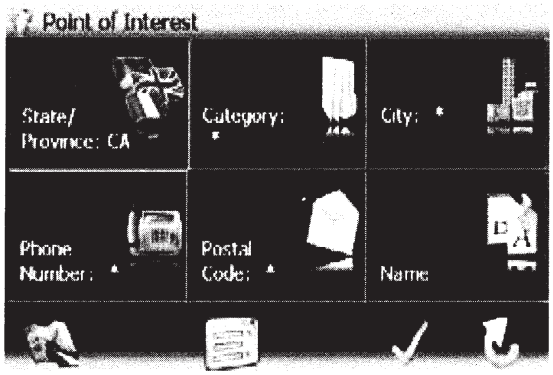
Button	Press This Button To..
	Return to map mode.
	Page up in displayed list.
	Return to main menu.
	Page down in displayed list.
	Switch to Spell Mode.
	Go back one step.

Point of Interest (POI)

The Point of Interest option is useful when you are going to a public place or are looking for some type of facility such as a gasoline station. After selecting the Point of Interest option, you must select the State/Province where the destination is located. NOTE: The system remembers the last State/Province selected, so this step is not necessary every time.

Points of Interest may be searched by Category, Zip code, Phone Number, or Name.

POI Search Methods



• By Category – If you are interested in the closest POI of a certain type for example nearest gas station, select this option.

• By City – You can select the city also.

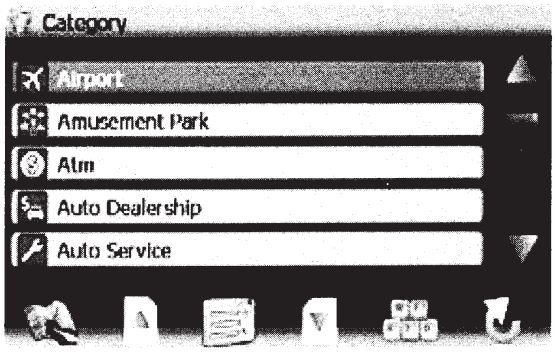
• By Phone Number – If you know the phone number of the desired POI, select this option to quickly find the POI. Note: The phone number search is limited to the currently selected country. Phone number searching may not be available for all POI's.

(This feature is not available on all systems. It may be disabled in order to meet 2GB limits.)

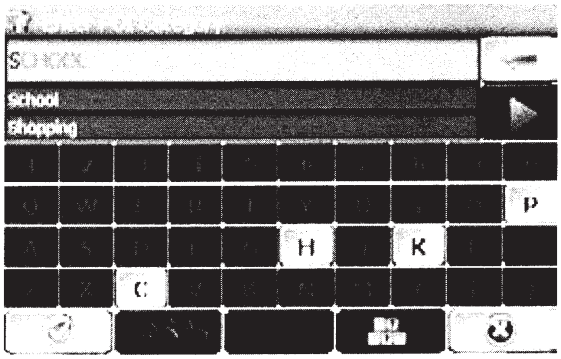
• By Zip code – If you know the zip code, select this option to quickly find the city. Note: Zip code search is limited to the currently selected State/Province. Zip code searching may not be available in all areas.

• By Name – If you know the name of the Point of Interest for example "COLISEUM", select this option.

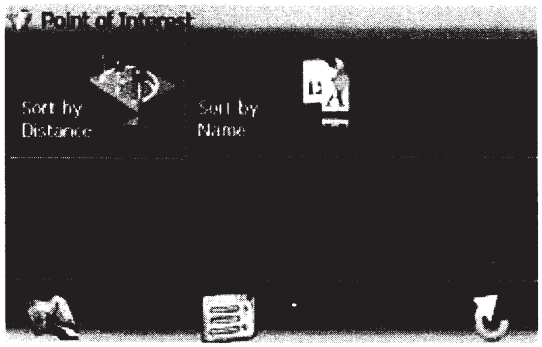
POI Category



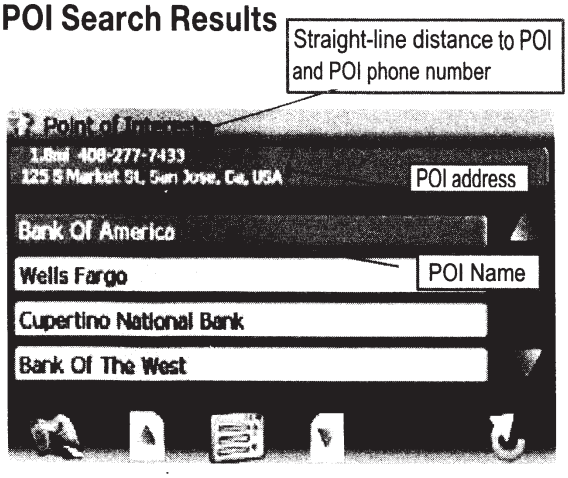
POI Name Speller



Some POI categories may not be available in some areas and not all possible POI's may be listed for all categories. For example, although the "Restaurant" category is very extensive, it is only as current as the map database information. Several categories restrict the search radius as well to minimize the search time. Since businesses change over time, so will the accuracy of the points of interest in your navigation map. To have the most accurate map database, annual map database updating is recommended. After selecting POI search criteria, you may select to list the results sorted by distance or by name.

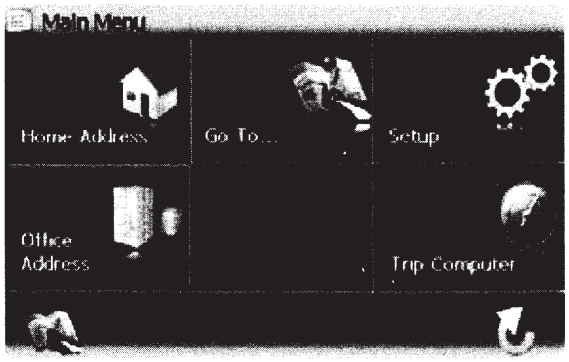


POI Search Results

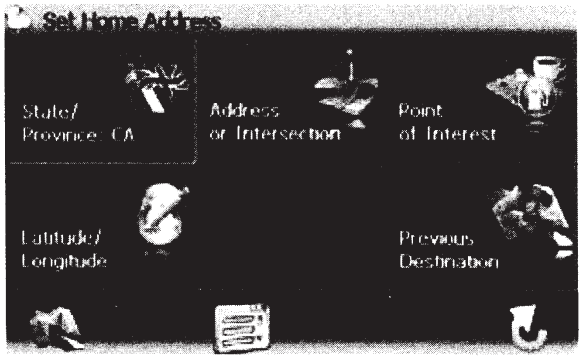


Home Address

The Home Address is a convenient way to route to your saved home address directly.

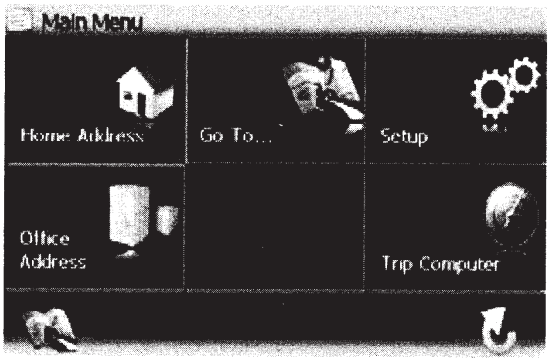


If the home address is not saved the following screen will pop-up. Click on the check mark to save the desired home address.

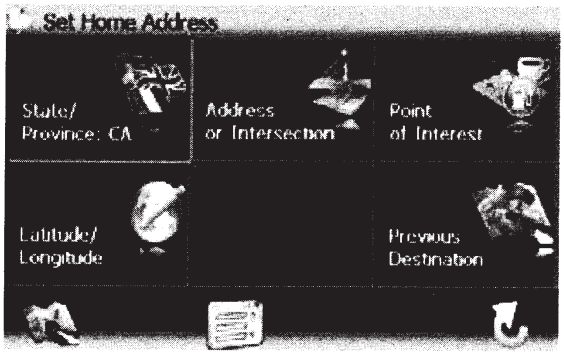


Office Address

The office Address is a convenient way to route to your saved office address directly.

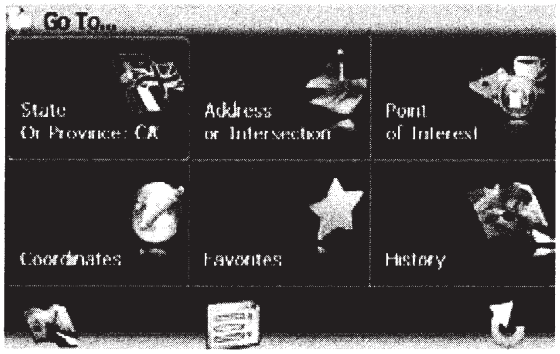


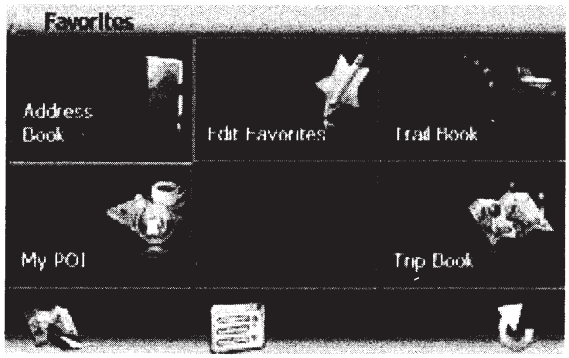
If the office address is not saved the following screen will pop-up. Click on the check mark to save the desired office address.



Favorites

There are three additional ways to set your destination under Favorites:

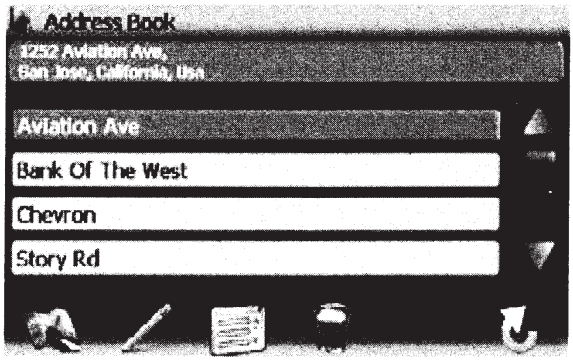




Address Book

The Address Book is a convenient place to store frequently visited destinations. To add, delete, or edit address book entries see “Address Book Editing” section of this manual.

Address Book Entries



Address Book Selection Buttons

Button	Press This Button To...
	Exit menu mode and return to map mode.
	Edit the highlighted displayed list.
	Return back Main menu level.
	Delete the highlighted displayed list.
	Go back one step.

Trail Book

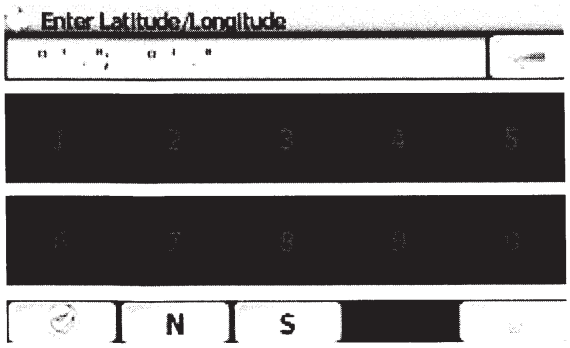
You can route to trails you have created. To add, delete, or edit Trail Book entries see "Edit Trail Book" section of this manual.

Trip Book

Trip Book allows you to navigate a trip that has multiple destinations. To add, delete, or edit Trail Book entries see "Edit Trip Book" section of this manual.

Coordinates

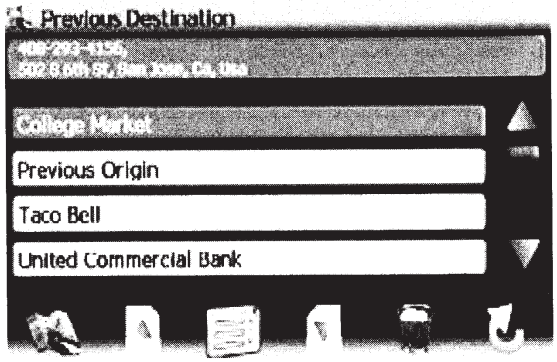
You can route to a destination by directly inputting latitude and longitude values.



History

Previous destinations entered into your NavMate software are automatically saved into the memory of the NavMate software. This is helpful when you want to return to a recent destination, such as a hotel where you may be staying. The Previous Origin of the last calculated route is also stored for easy return to your start point.

Previous Destination Selection



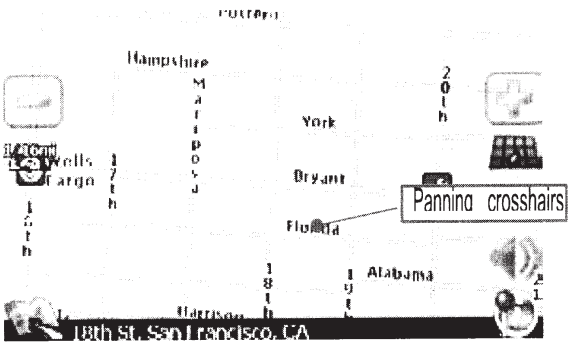
Previous Destination Selection Buttons

Button	Press This Button To...
	Exit menu mode and return to map mode.
	Page up in displayed list.
	Return back one menu level.
	Page down in displayed list.
	Delete the selected item.
	Go back one step.

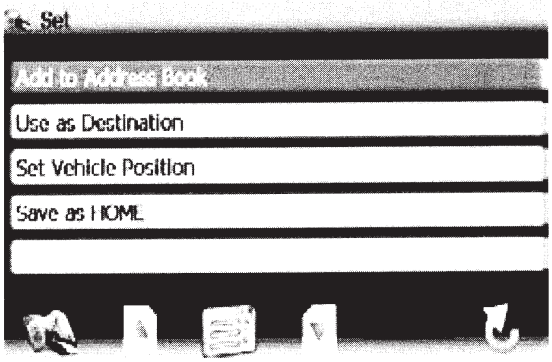
By using Map

You may select the destination by touching the screen. The system will display the cross hairs according to the location you touch.

Select Destination from Map



Press current position to display location information about the current panned location. Select the highlighted entry to select the panned location for the following options.



Select Destination from Map Buttons

Button	Press This Button To...
	Return to map mode.
	Return to main menu.
	Go back one step.

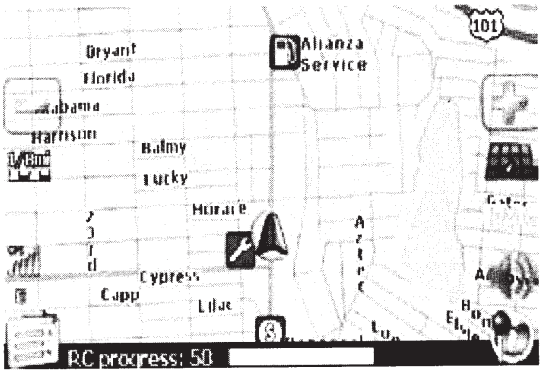
Route Calculation and Guidance

After selecting a destination, the system calculates a route based on the route criteria set in the Setup Menu.

Route Calculation

The status bar indicates route calculation progress.

Route Calculation Progress



Please Proceed

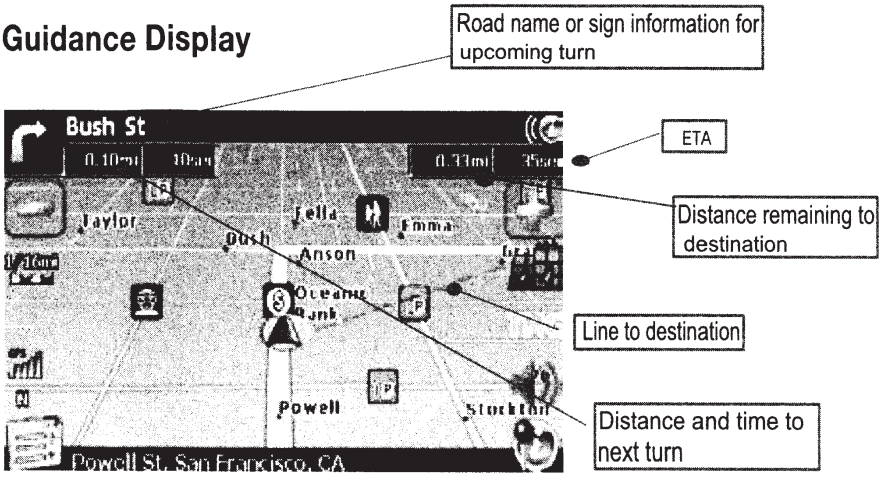
When route calculation is complete, the NavMate software will instruct you to "Please proceed to the highlighted route" unless you are already on the route. The highlighted route is indicated in magenta.

Route Guidance

Once on the highlighted route, guidance information is provided on the screen. Glance at the screen only when necessary and safe to do so.

As you continue on the route, the guidance information is continually updated to correspond with your progress to the destination.

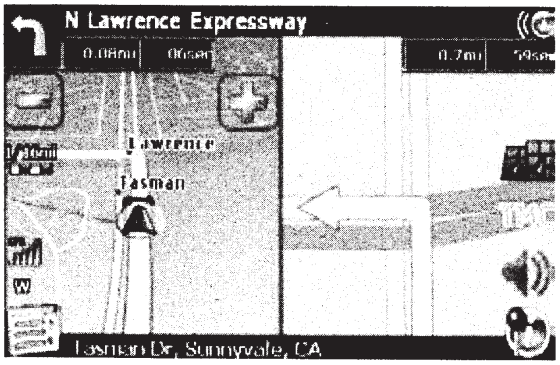
Guidance Display



True View (Intersection Zoom)

Just before a turn point, the guidance display will show a close-up or "true view" of the roads around the turn point.

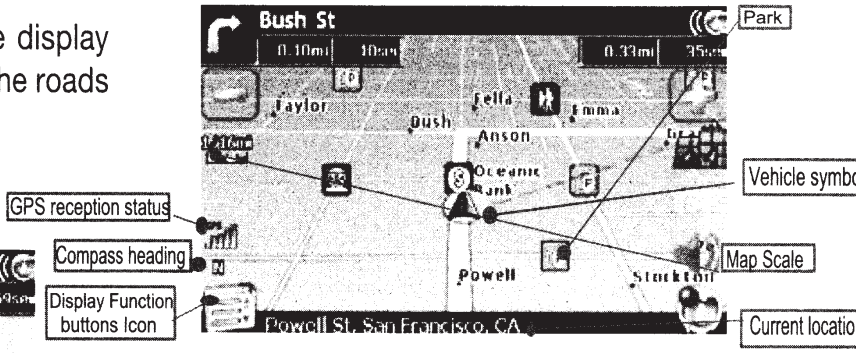
True View (Intersection Zoom)



Map Display

The Map Display shows roads, road names, and geographic features like lakes and rivers. You can adjust the map scale, the map orientation, map view, status information display, and the distance units to your own preferences (See Setup section of this manual).

Map display



The GPS symbol may change colors indicating the strength of the signal. The GPS symbol colors mean:

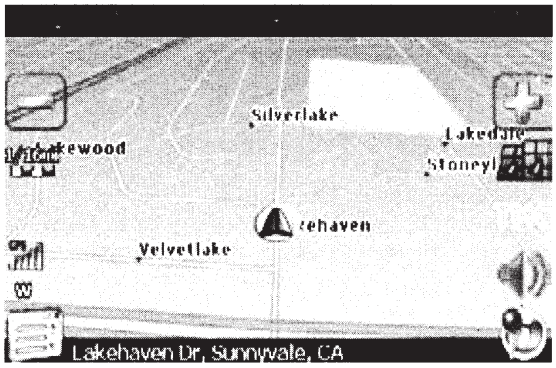
Green – GPS signal is free from obstruction and is being received regularly. At least four satellites are being received.

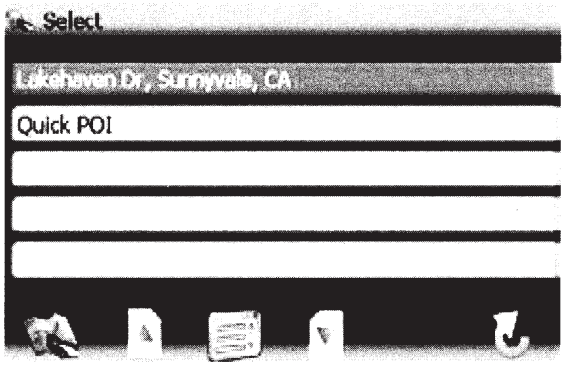
Yellow – GPS signal is partially obstructed. Three satellites are being received.

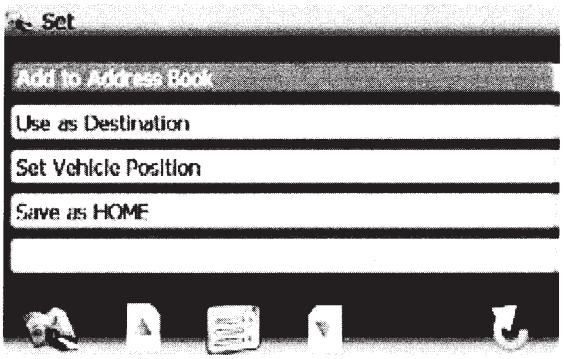
Red – GPS signal is unavailable. Two or fewer satellites are being received.

Current Location Screen

Press current position to display information about the current map location. Then select the location information box to add it to address book, use it as a destination, re-set position, or save location as HOME location.



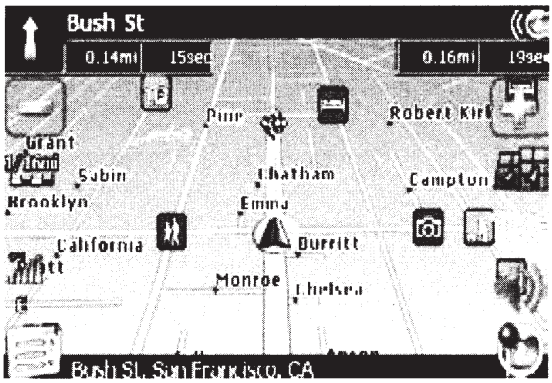




Arrival Screen

The destination is shown on the Map Display screen with a checkered flag symbol. A voice message announces that you are approaching your destination.

Arrival Screen



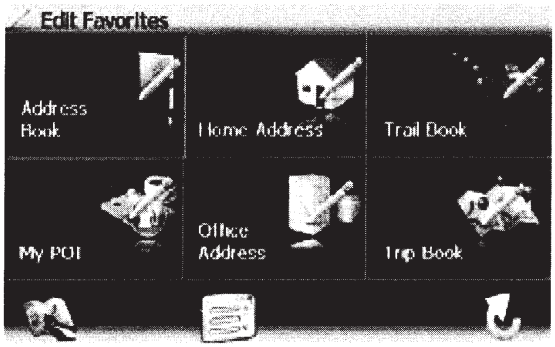
Off-Route and Route Interruptions

If you leave the current route, the NavMate software will automatically recalculate the route. This feature may be disabled if you prefer by turning "Auto Recalculation Off" in the Setup menu, under Navigation Preference.

If you leave the route to make a stop, the NavMate software remembers your destination. After you re-start, the NavMate software will ask if you want to continue your route.

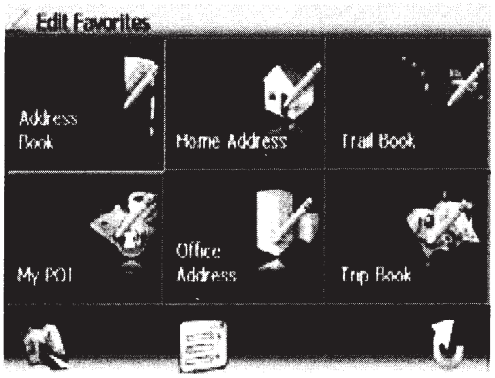
Edit Favorites Menu

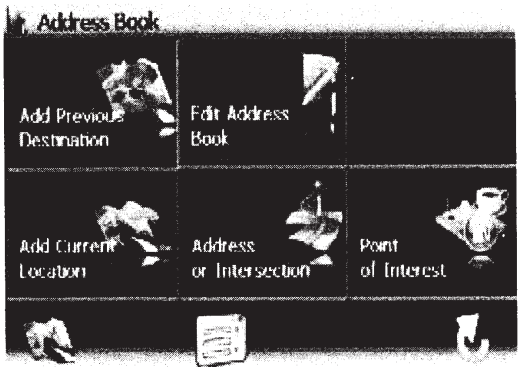
Add or modify destinations in Address Book, Home Address, Office Address, Trail Book and Trip Book.



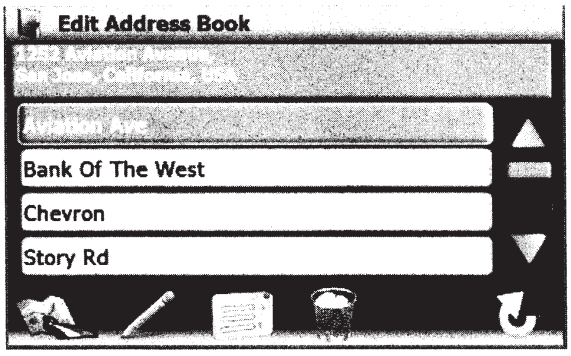
Edit Address Book

The "Address Book" option allows adding and editing address book entries. Select "Edit Favorites" from the Main Menu then select "Address Book".



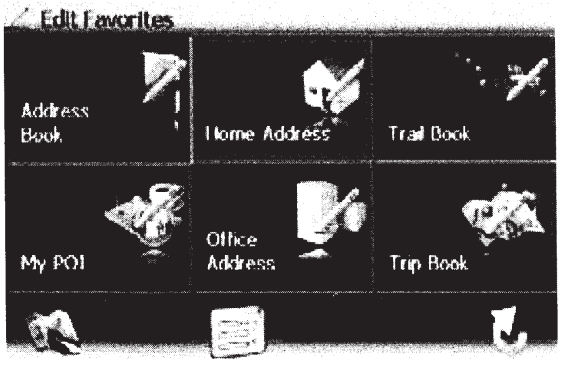


Use Edit function to rename address book entry and to delete.

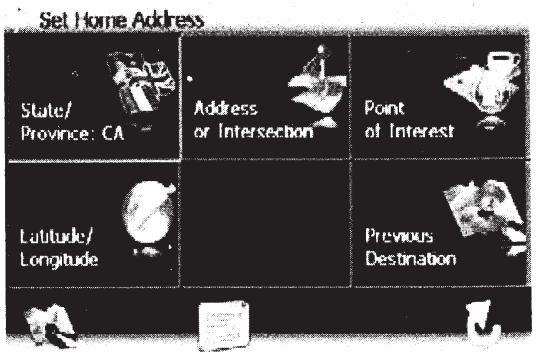


Edit Home Address

The "Home Address" option allows adding or replacing home address.

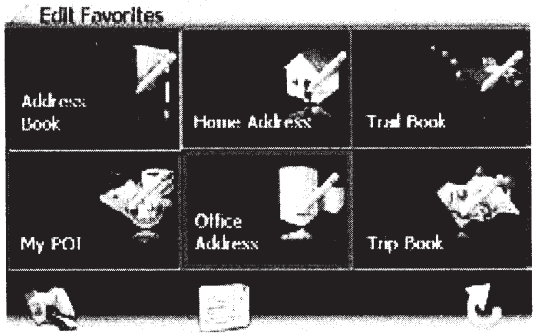


Select home address from the following places.

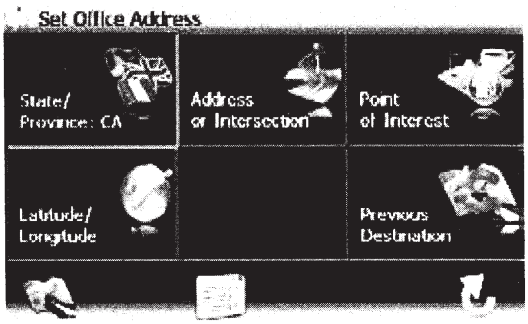


Edit Office Address

The "Office Address" option allows adding or replacing office address book.



Select office address from the following places.



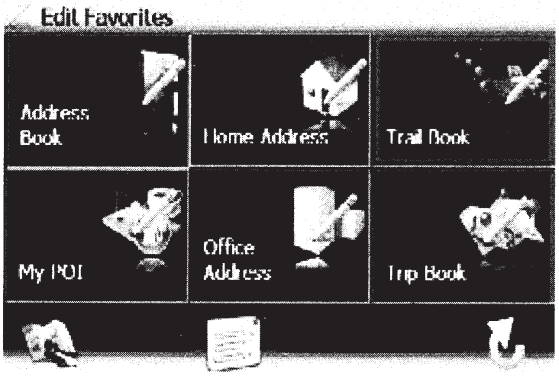
Edit Trail Book

The "Trail Book" option allows adding, editing and Setup display for trail book entries. The main purpose of the "Trail Book" is off-road navigation. For example in the area where the digital map coverage is not sufficient or completely missing. A trail represents a path taken by a vehicle while the trail is being recorded. Each trail is shown on the map as

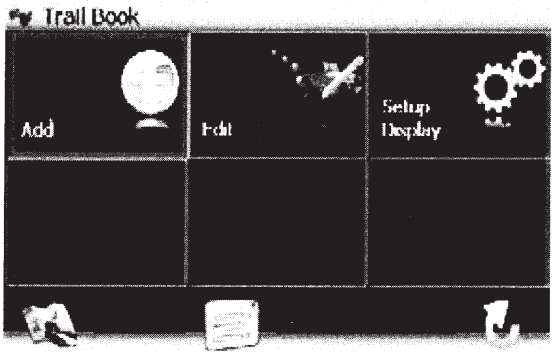
series of dots. User can select a color for each trail.

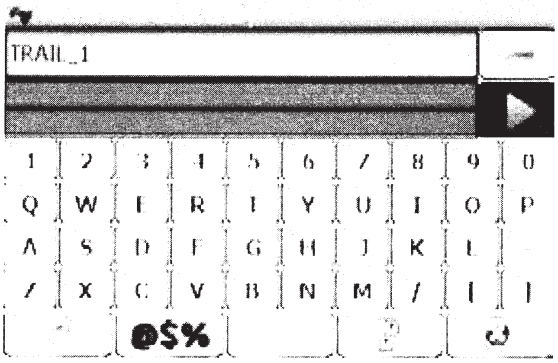
User can assign names to some of the dots on the trail. These dots are called waypoints. The name of the waypoints will be shown on the map. Otherwise dots representing the trail are recorded automatically by navigation application.

Waypoints can be selected as destinations after the trail is completed (saved).

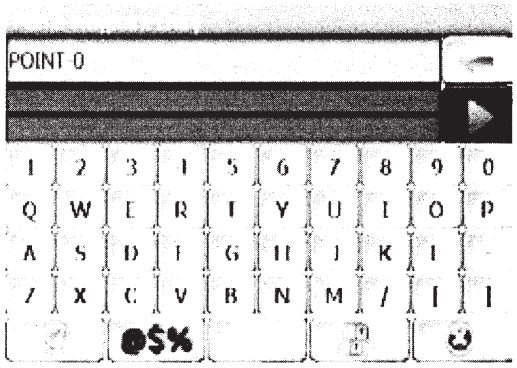


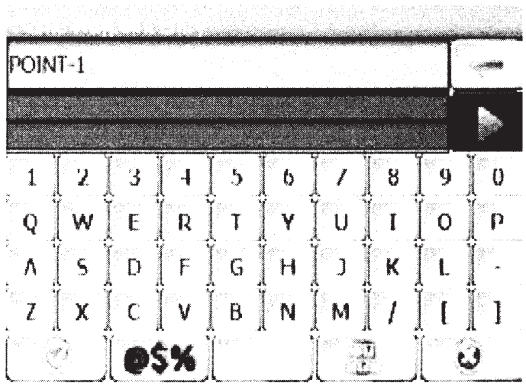
Add Trail





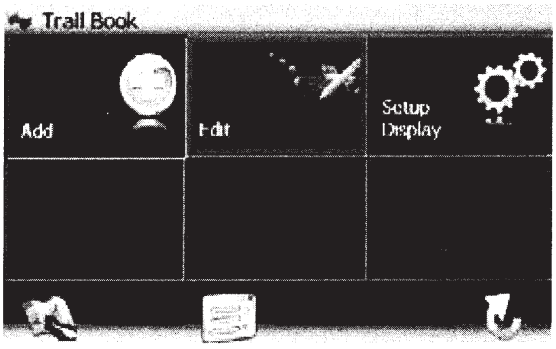
Press current position to add a waypoint:



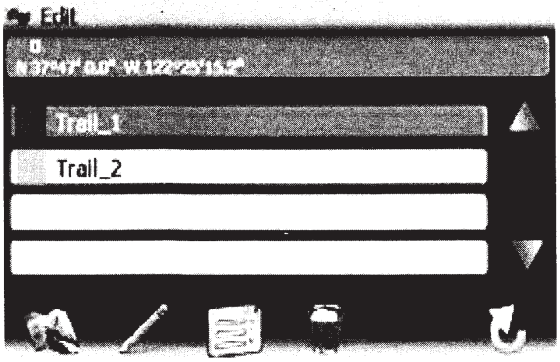


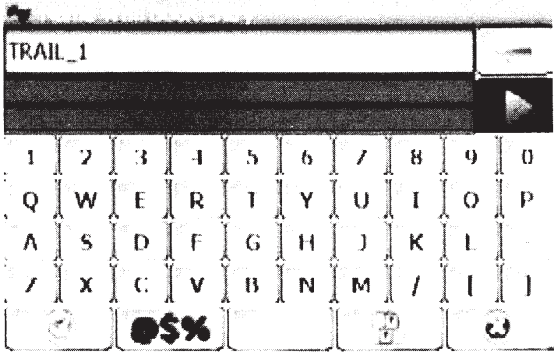
Press Menu icon and select Stop Trail when you complete the trail.

Edit Trail

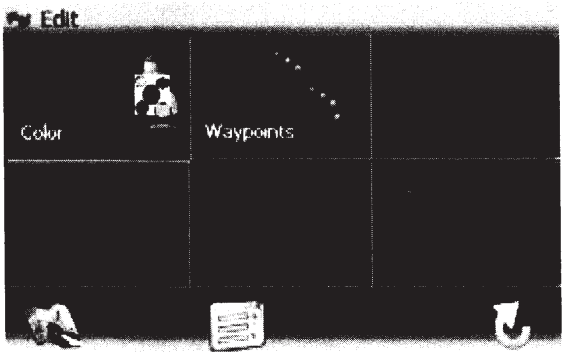


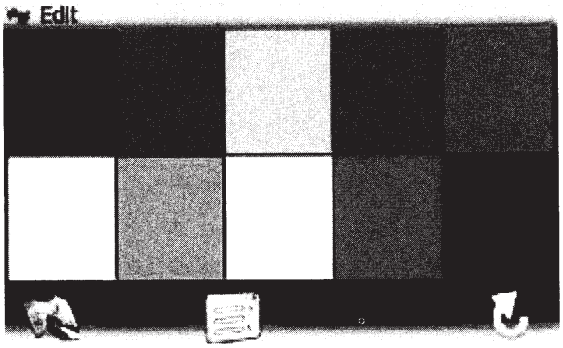
Select the trail name, use to rename the trail and to delete the trail.





Select the highlighted trail name to edit color and waypoints.

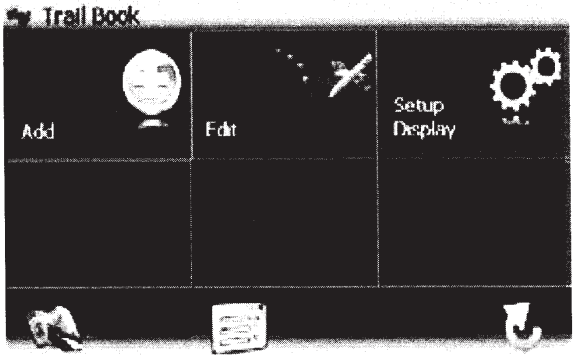


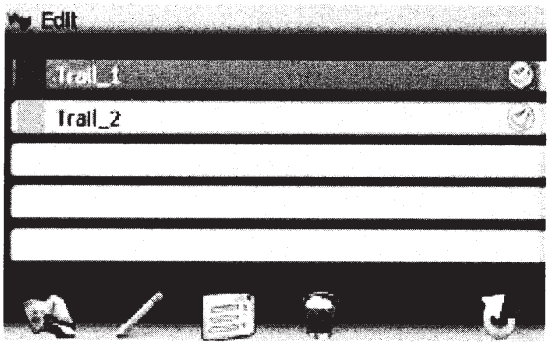


Use to rename the waypoints and to delete the waypoints.

Setup Trail

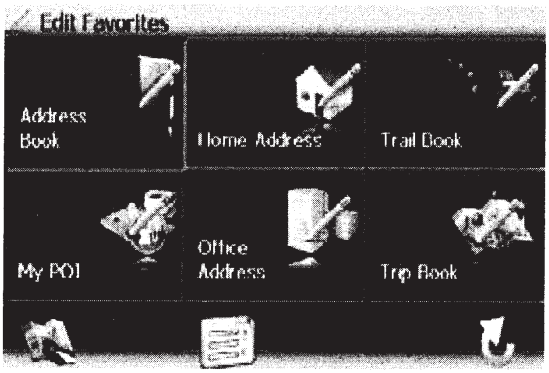
Display Select Setup Display and set the map scale for the trails to be displayed.



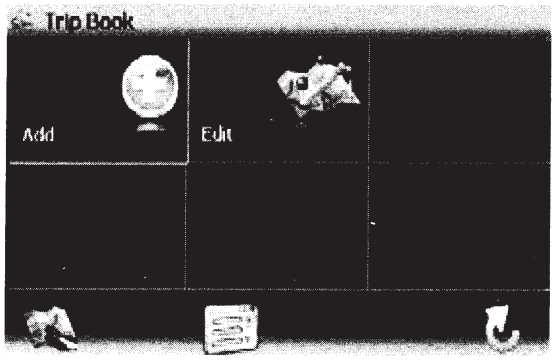


Edit Trip Book

"Trip Book" is a collection of trips. Each trip represents a set of multiple destinations.

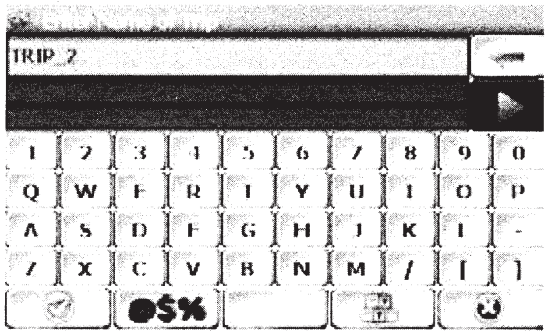


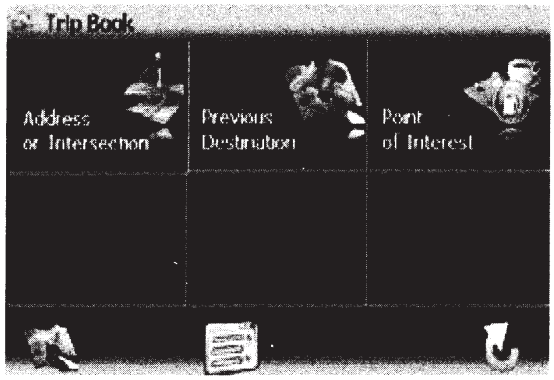
Edit Trip Book allows adding and editing trips and destinations within a trip.

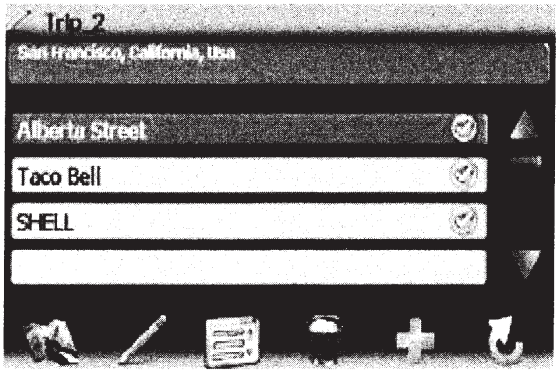


Add

Add allows adding trips and destinations within a trip.



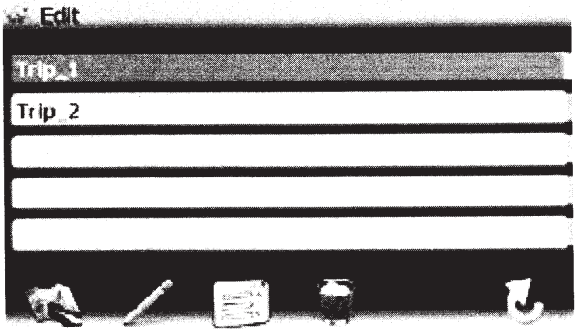




Press to add additional destinations to the trip. Press to rename the destinations and press to delete an existing destination in a selected trip.

Edit

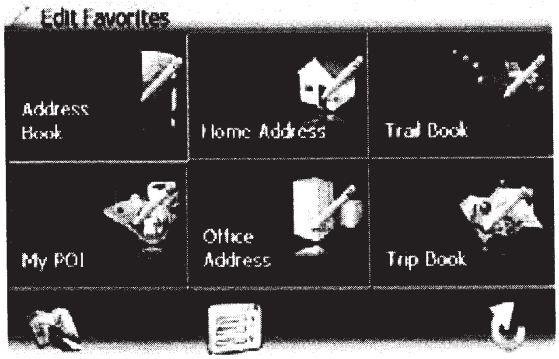
Edit allows modifying destinations within a trip and or deleting an existing trip.

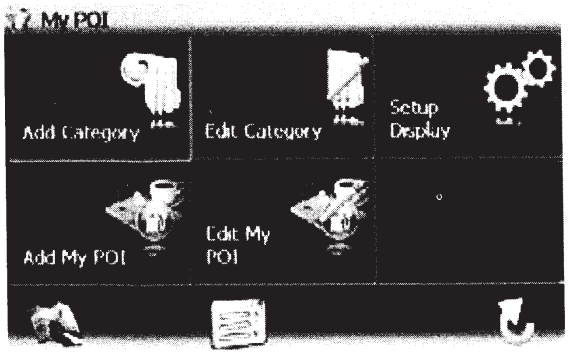


Press to rename the highlighted trip and press to delete the trip.

Edit My POI

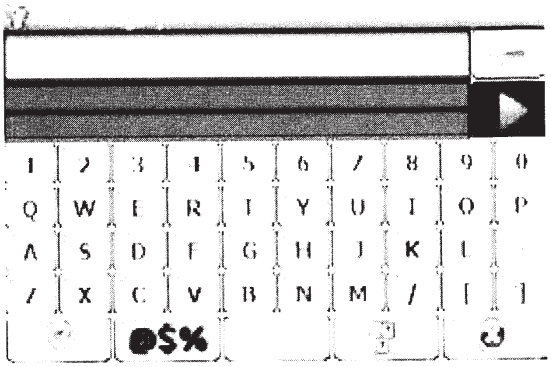
The user can create personalized categories of Point Of Interest.

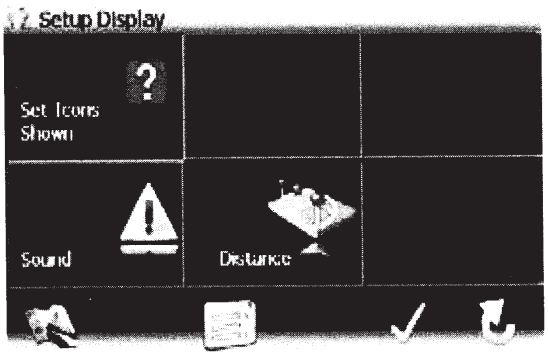


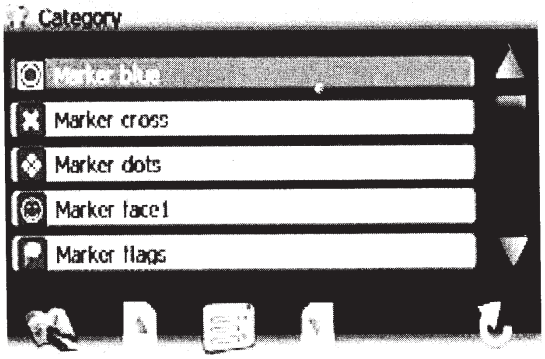


Add Category

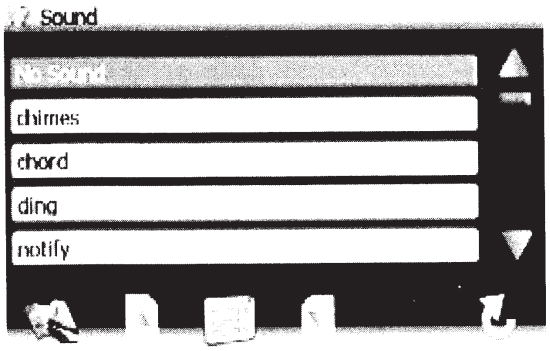
In order for My POI to work properly, a category needs to be created first before adding a destination as a POI. Use keyboard to create a new POI category name and set icon, sound and distance of your choice to the created category.

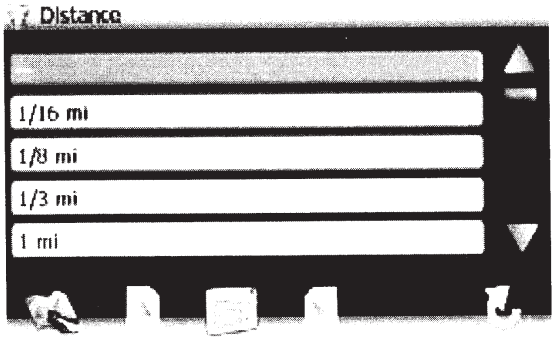






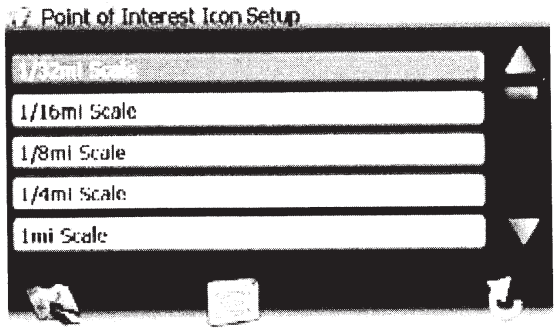
By selecting sound and distance the system will alert you when you are approaching the POI destination.

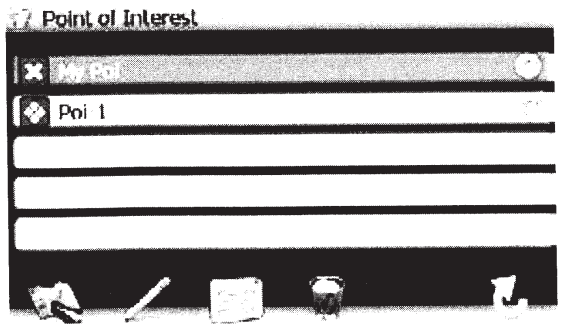




Setup Display

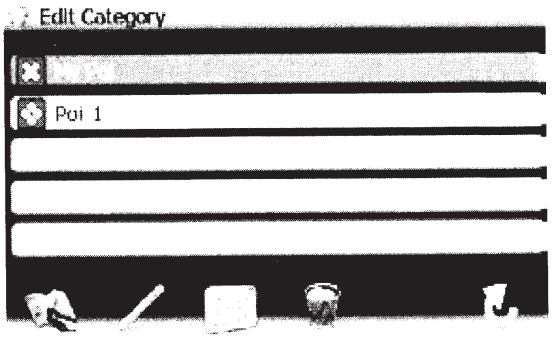
By selecting the map scale, the user can hide or unhide the POI's display on the selected map scale view.





Edit Category

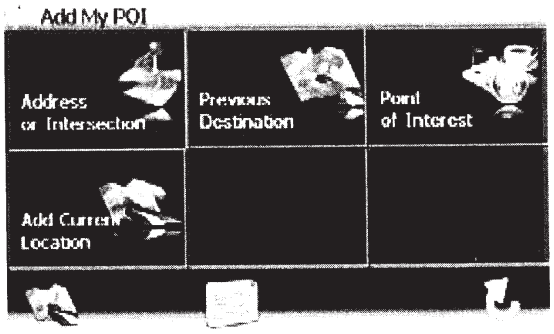
The user can modify or delete the selected POI category:



Press to rename the POI category or press to delete.

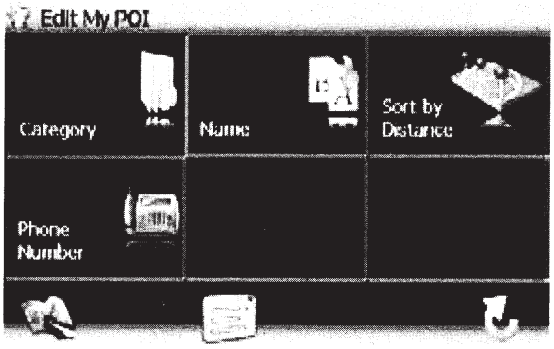
Add to My POI

By selecting a destination, the user can add this destination as a POI to the POI category you have created.



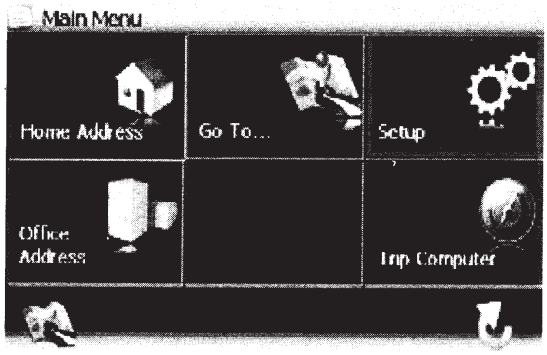
Edit My POI

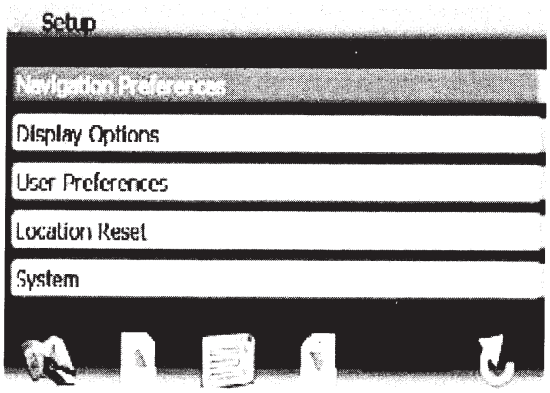
The user can modify the POI items by category, by name or by phone number. The POI names can be edited or deleted from the list.



Set-Up Menu

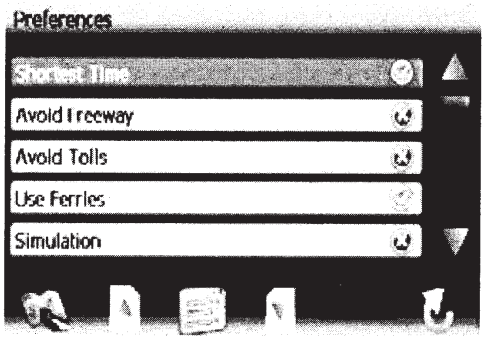
You may customize the NavMate software to your own preferences. Select Set-up option to adjust navigation preferences, display options, and units (km or mi) settings. You may also reset the vehicle position and do some basic system diagnostics through the Setup Menu.

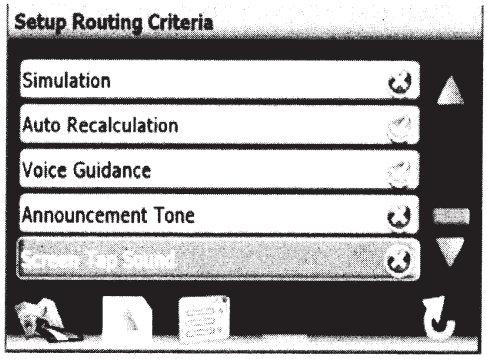




Setup Routing

Criteria Navigation Preferences allows you to set the simulation mode on, and set the route calculation and guidance options.





- Simulation On/Off – When On, the NavMate software will "drive" the selected route even though the vehicle is not moving. Simulation ON turns off the GPS signal processing. This mode can be used to preview a route, or show off the system to friends.

- Shortest time/distance – Determines if the NavMate software emphasizes finding the fastest or the shortest route.

- Avoid Freeway yes/no – Determines if the NavMate software avoids or uses freeways in the route calculation.

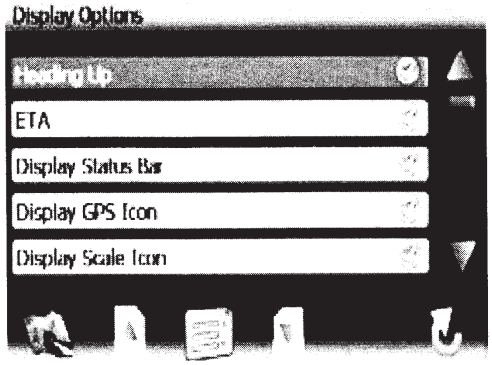
- Toll Yes/No – Determines if the NavMate software uses toll roads in the calculated route.

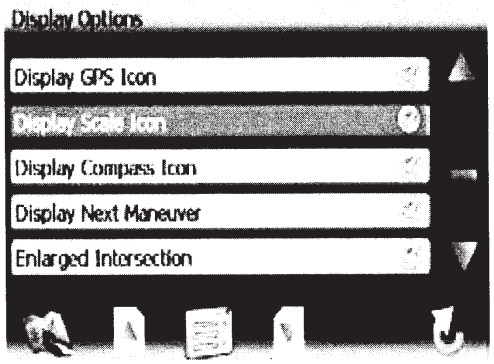
- Auto Recalculation On/Off – When On, the NavMate software will automatically recalculate the route if the current route is left.

- Voice Guidance On/Off – When On, the system will give audible guidance.

Display Options

Display options allow you to set the map orientation and some of the information items displayed.





- North Up/Heading Up – Determines if the map is always displayed with North direction at the top of the screen or if map is always adjusted so that vehicle symbol points toward the top of the screen.

- Status Bar Display On/Off – Turn the display of the Status Bar on or off.

- GPS Icon Display On/Off – Turn the display of the GPS reception symbol on or off.

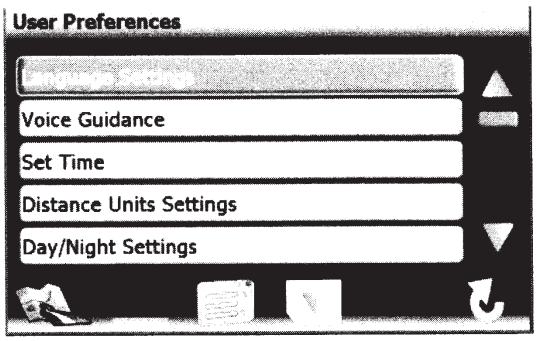
- Scale Icon Display On/Off – Determines if the map scale symbol is shown.

- Compass Icon Display On/Off – Turn the Compass symbol on or off.

- Next Maneuver On/Off – Set the display of the turn symbol.

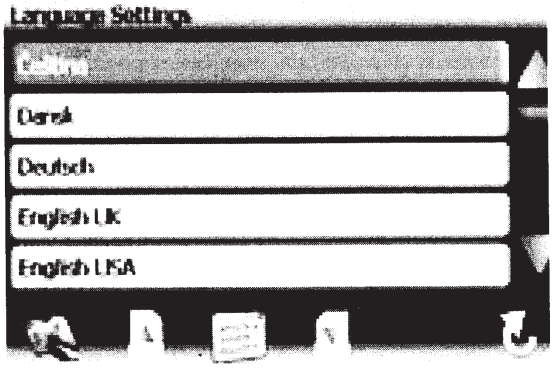
- Intersection Zoom On/Off – Turn the true view on or off.

User Preference



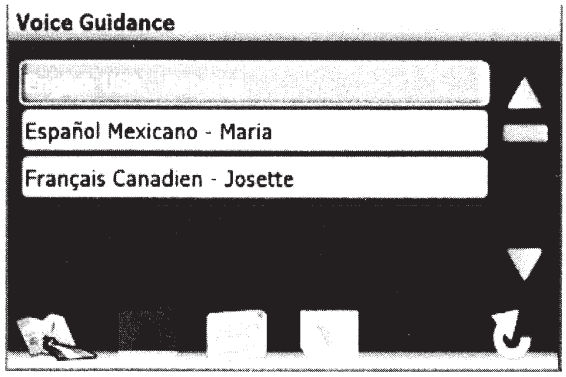
Language Settings

You can choose one of the following languages.

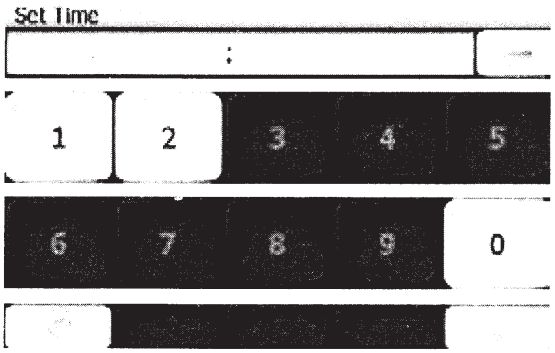


Voice Guidance

You can choose one of the following Voices.

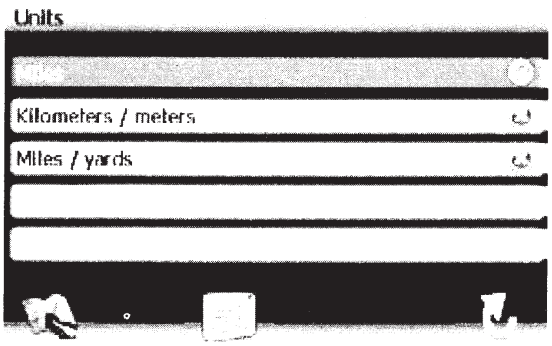


Set Time



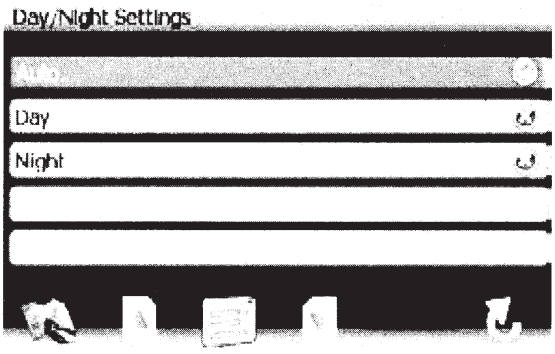
Distance Units Settings

The units used when displaying and announcing the distance to turns may be set to Miles (decimal miles, e.g. zero point three miles), Kilometers/meters, or Miles/yards based on personal preference.



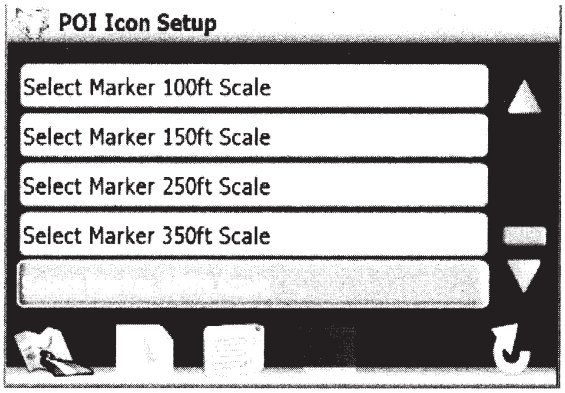
Day/Night Settings

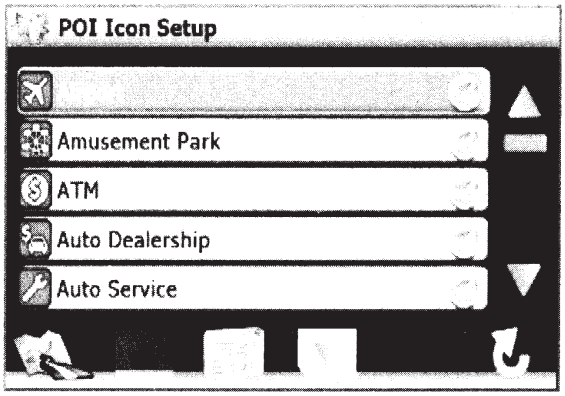
You can select Auto, Day or Night color scheme.



Point of Interest Icon Setup

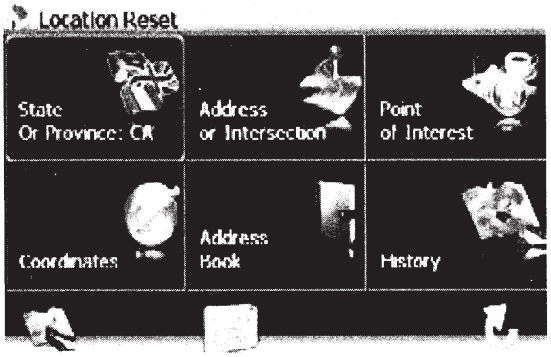
This feature will allow you to select POI that will be displayed in different scales.





Location Reset

You may reset the location of the vehicle symbol using the Location Reset option.



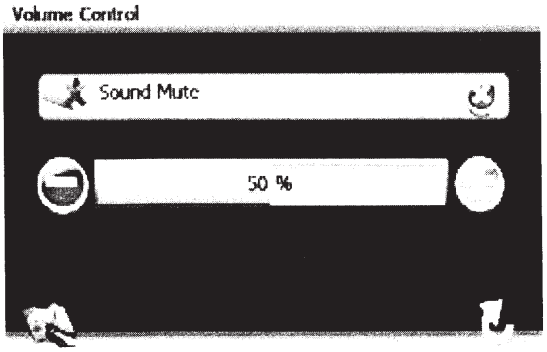
System

The System Diagnostics menu allows you to Set Volume, diagnose the GPS reception status and provides information on the current software and map version numbers.

System Menu

Volume

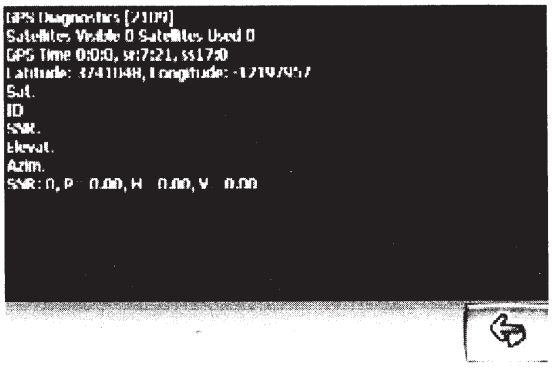
Allows the user to set or mute the volume of the navigation unit



GPS diagnostic

The GPS diagnostic displays the number of GPS satellites currently in view and how many are currently being used. The GPS satellite time is displayed (UTC) and so is the latitude and longitude determined from GPS.

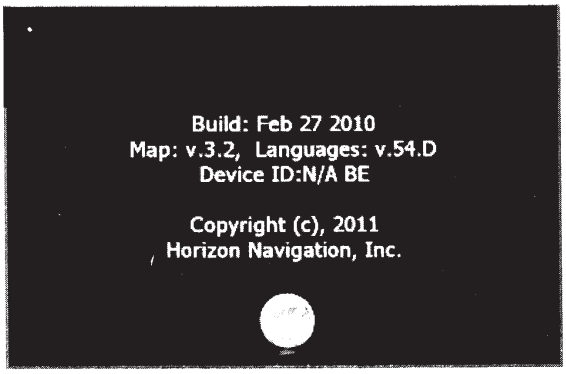
GPS Diagnostic Test Result



System Information

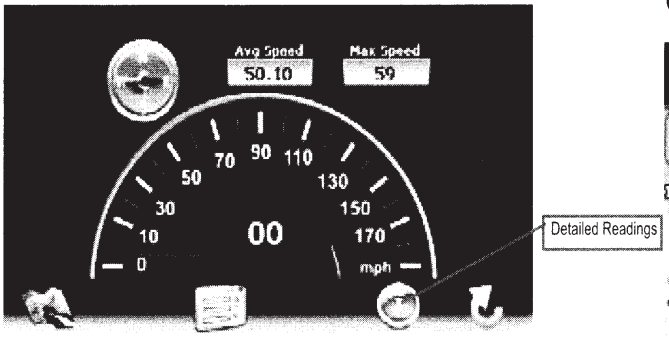
The version numbers for the system software and mapping can be found under System Information.

System Information

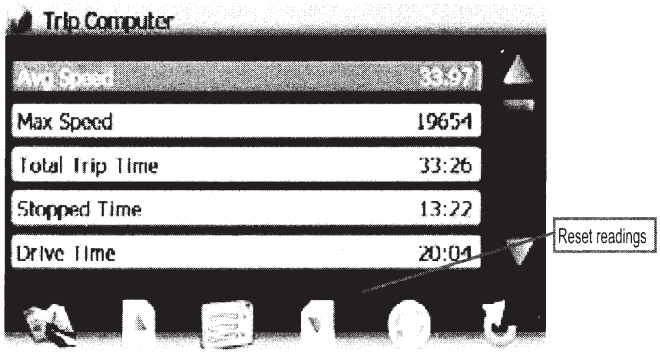


Trip Computer

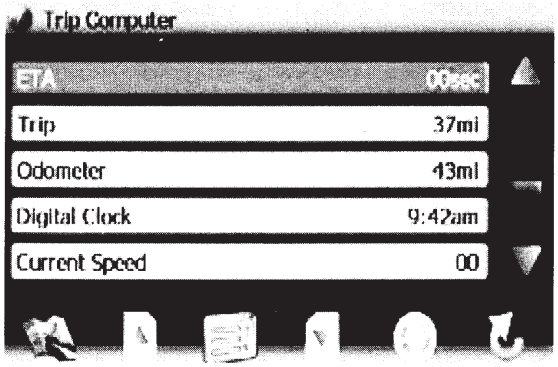
Trip Computer gives the readings of speed, trip related timing, elevation, odometer and clock.



Press to display detailed reading of each field.

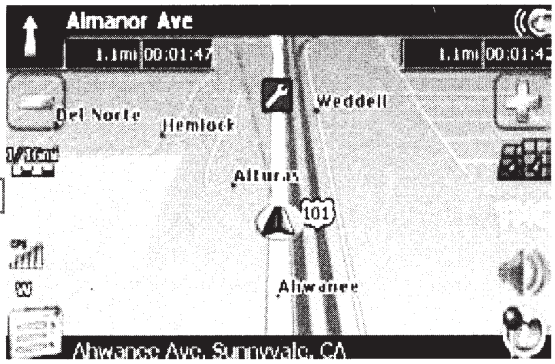


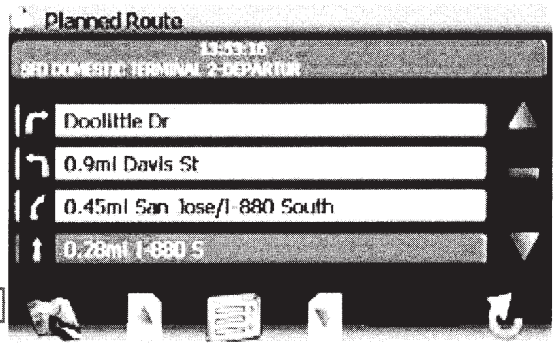
Scroll the UP or DOWN arrow button to choose the field then press to reset current reading.



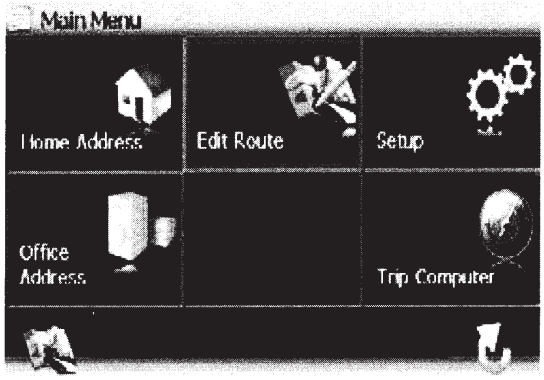
Planned Route

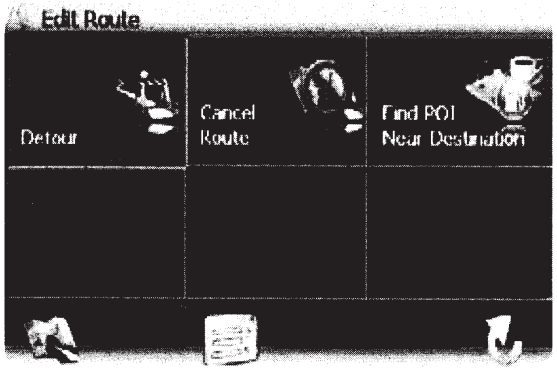
To view planned route on a highlighted route click the top left corner Icon and the system will display the entire route list.

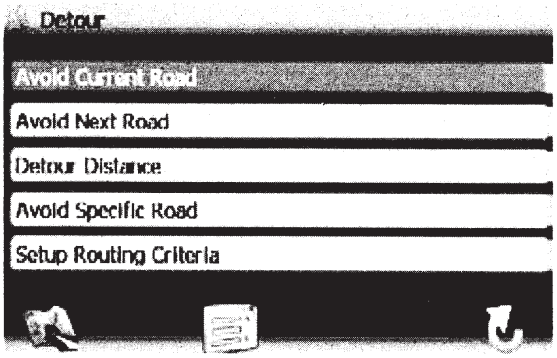




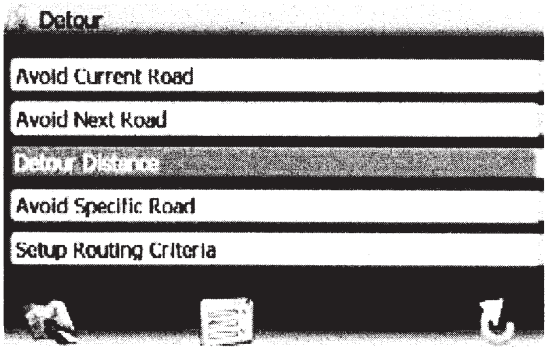
Detour

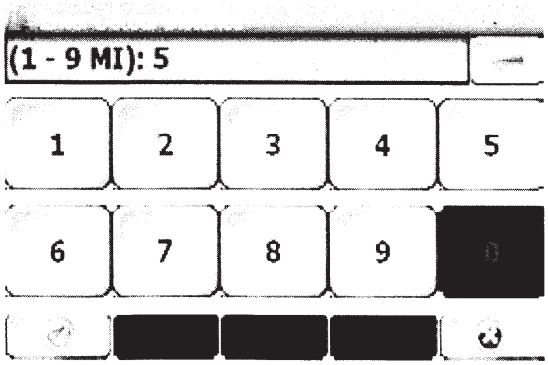




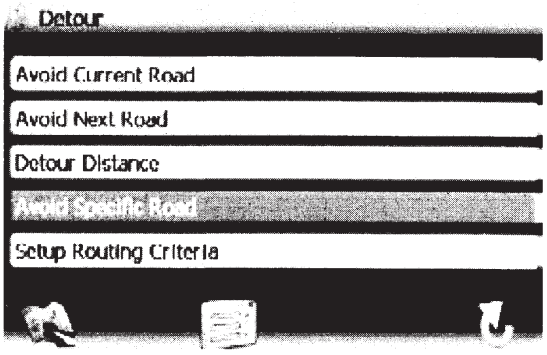


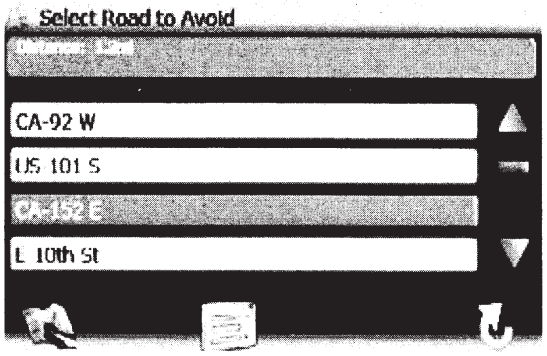
Detour Distance





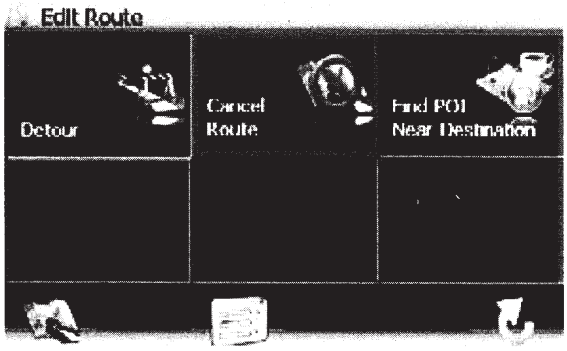
Avoid Specific Road





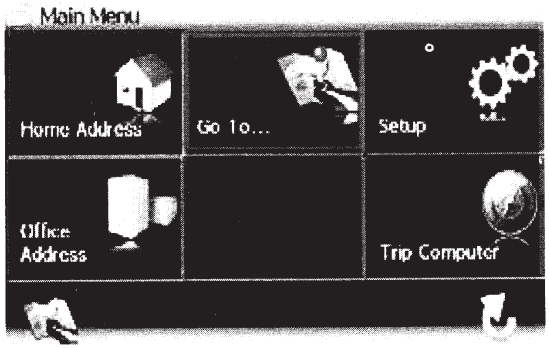
Cancel Route

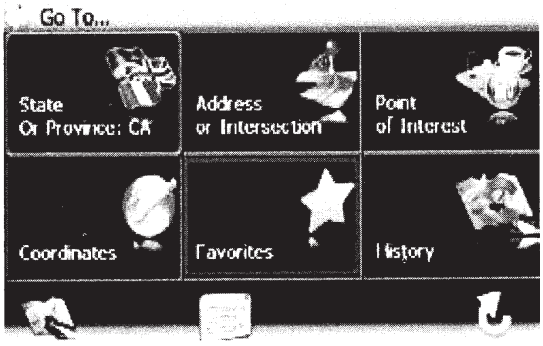
Select this function to cancel the current route.



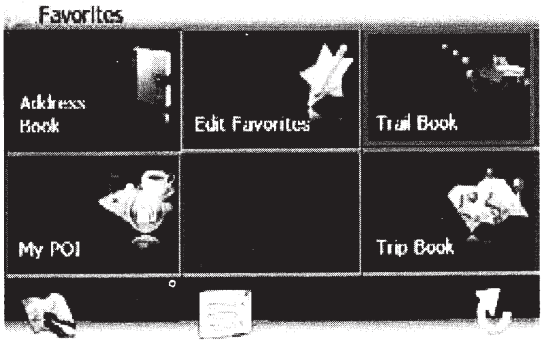
Follow Trail

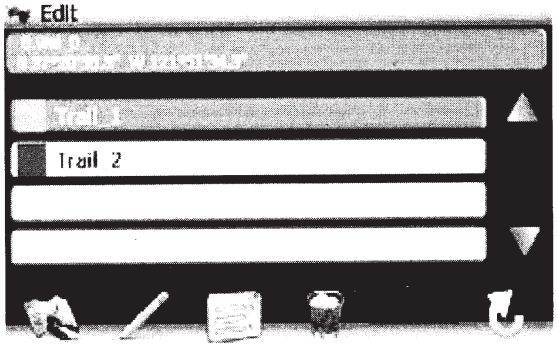
Next time you go off-road, you can follow the same trail you created by selecting "Start Route Guidance" then select "Trail Book" and finally select an existing trail.



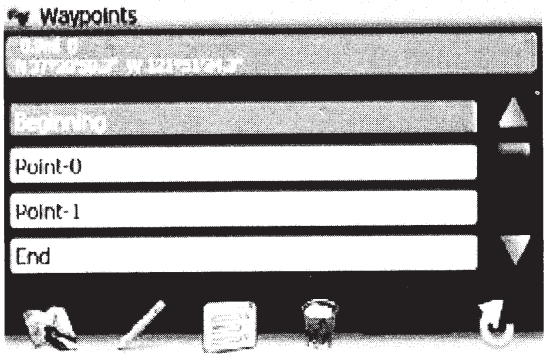


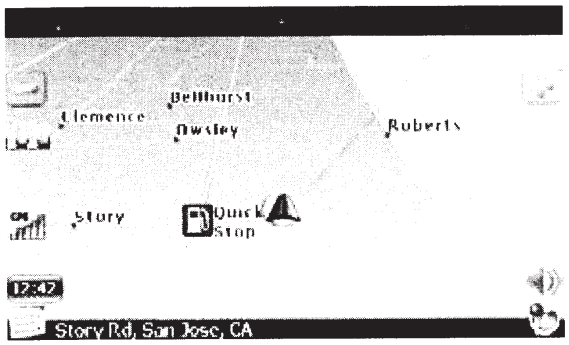
You will see the following screen upon selecting a trail:



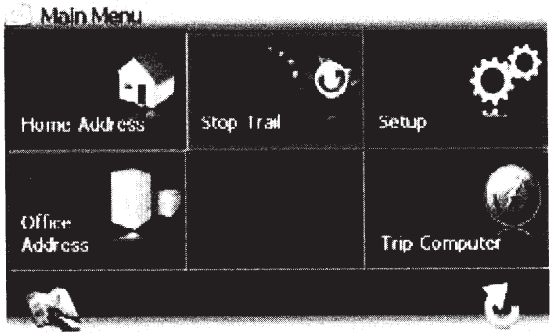


You can select to go to any points in this trail as a starting point. Upon your selection, the system will point you with a red line to that starting location. You will follow the red line to the starting point and start your trail blazing by following the dotted line.





Press Menu icon then select "Stop Trail" to cancel route.



Appendix A: NavUtil Manual

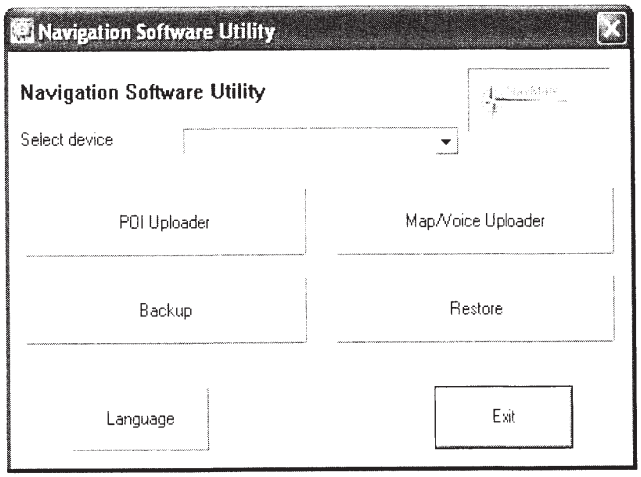
Introduction

Navigation Software Utility (NavUtil) has 4 major components:

1) POI Uploader
2) Map/Voice Uploader (For installing Navigation System on memory card or HDD)
3) Backup
4) Restore

This utility helps the user to upload/download POI files, map and voices files, backup the user specific data files and also to restore user specific data files into the navigation unit.

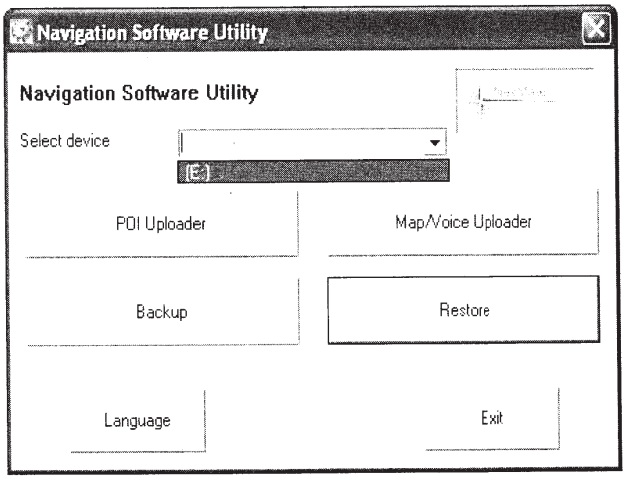
The NavUtil Tool pops up when the DVD is inserted into the PC. As per the requirement the tool can be used for further usage. Please refer to following screen:



Select Device and Language function

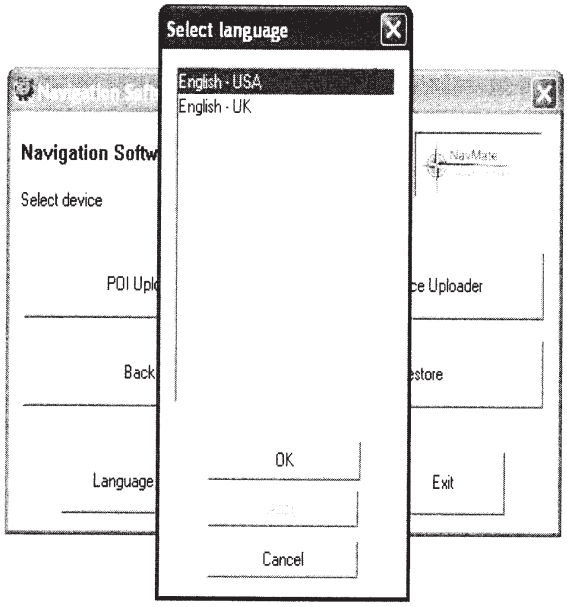
Select Device

Select Device allows you to access your navigation SD card or navigation device. For example, if your navigation SD card is inserted in E: drive, you will be able to select it.



Language

It allows you to select different languages when running NavUtil. So far it supports US English, UK English and Russian.



POI Uploader

POI Uploader intended to edit and upload POI categories and import and upload list of POI's. The user should download the POI files from the internet and save them on PC in a folder like C:\POIFiles. When POI Uploader is started and "Add" button is clicked to open the C:\POIFiles, it shows list of saved POI imported files. Whatever files the user needs to upload should be collected and loaded.

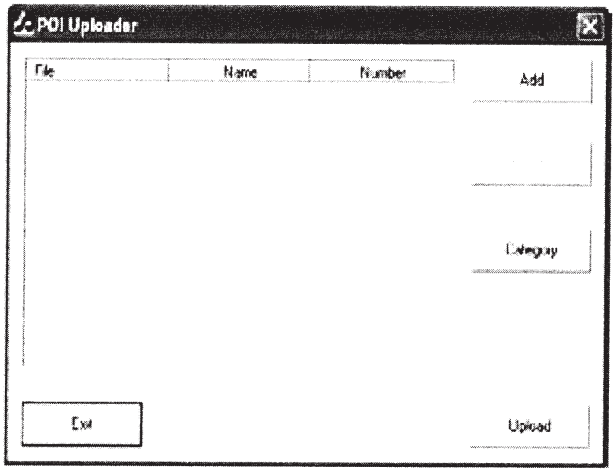
- "Add" button adds new file to import list. By activating this button, "Open file" dialog box appears. If a file is chosen then "Select category" dialog box appears. If category is selected or created (by new button) and assigned to the file, file name will be inserted in POI file list in front of main dialog box.

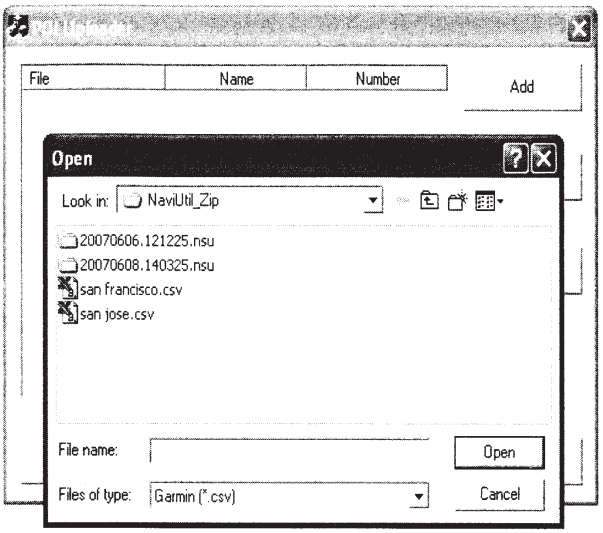
- "Delete" button allows deleting one or more selected files. When button is activated a message box with prompt to delete appears. If user presses "Yes" selected file will be removed from the file list. If "No" button is pressed, deleting process will be terminated. The "Delete" button will be disabled until; at least one (or more) files are selected in the file list.

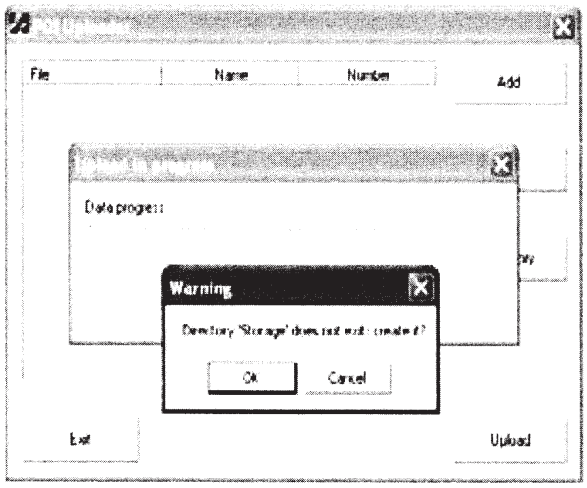
- Activating "Category" pops up "Select Category" dialog box. "Category" button is intended to change assignment between imported files and categories by editing or creating new categories.

- "Upload" button starts the process of uploading the file list to selected device. By activating "Upload", a progress dialog box is started. If the Storage folder does not exist in the device a warning message is given so that the user can create a Storage folder. The progress dialog box contains a button to cancel the process if necessary . When upload process is over the progress dialog is closed automatically.

- "Exit" button finishes running the application and exits the uploader.

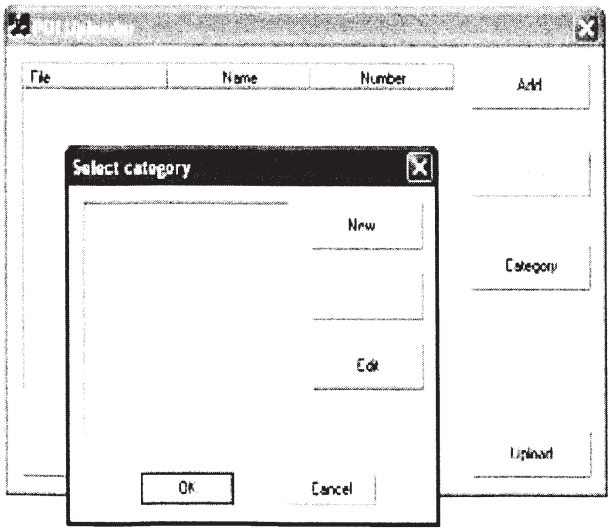






Select Category feature

"Select category" feature provides the user the ability to edit, add new and assign POI categories.



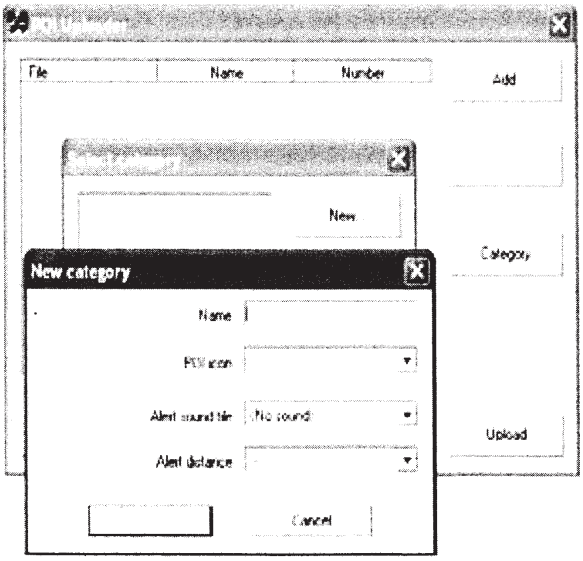
- "New" button is used to create a new POI category. In the New Category dialog box, the name and POI icon must be selected to create a new POI category.

- "Delete" button removes one or more selected categories. If a category is assigned to a POI, delete process is denied. If no categories are selected in the list, "Delete" button will not work.

- "Edit" button enables the user to change the field of selected category. If there is not a category selected category or more than one category is selected, "Edit" button will not work.

- "OK" button assigns selected category to the selected main file. If more than one category is selected or no category is selected, "OK" button will not work.

- "Cancel" button discards new assignment between category and POI file and closes the dialog box. Canceling also keeps changes in category list and inside categories.



Map/Voice Uploader

(For installing Navigation System on memory card or HDD)

The Map/Voice Uploader utility is used to upload map data into the navigation unit. It helps to copy the selected map data from the Master DVD to the memory storage device like SD card, CF card, HDD (Hard Disk Device), etc. Before the map data is downloaded to the memory storage device, the existing navigation data i.e. Address Book and Previous Destinations will be backed up into a folder called \Navmate on your PC. After downloading is complete, the backed up data can be restored.

Steps to follow to download the Map Data

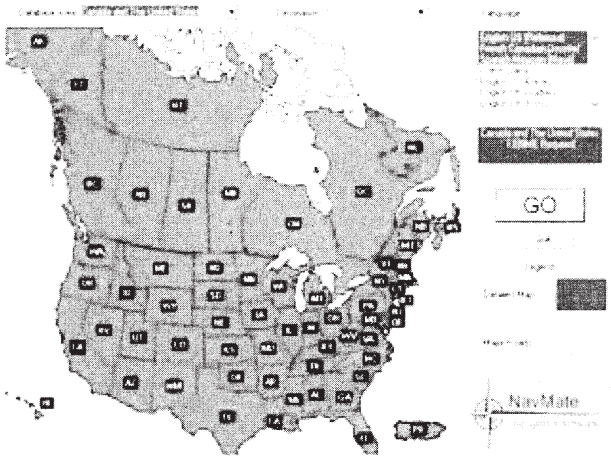
1) The following components are required on your PC:
   a. DVD-ROM drive
   b. USB port
   c. USB cabled. Memory card reader for CF card and SD card

2) Connecting the memory devices:
   a. If the navigation device is using CF or SD card, then insert CF or SD card to memory card reader then connect it with the USB cable to the PC.
   b. If the navigation device is using HDD, then connect the device with the USB cable to the PC.

3) Select "Map/Voice Uploader" if you have NavUtil running on PC. If not, insert Master DVD in your DVD drive and wait for NavUtil to come up then select "Map/Voice Uploader".

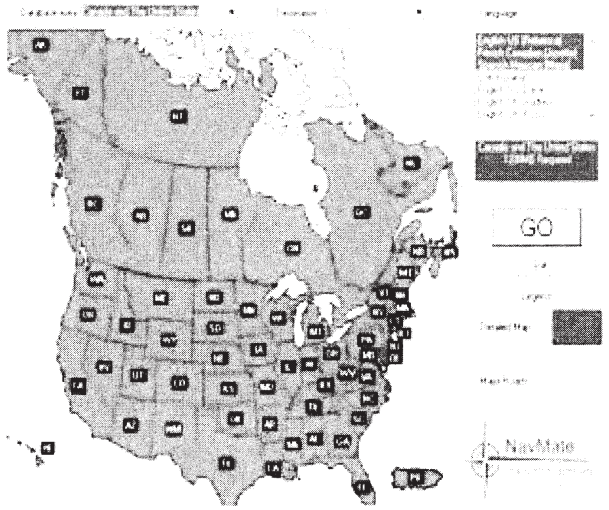
Select Database Area

To select the Database Area, click on the down arrow of the Database Area option and then select the area you want to download.



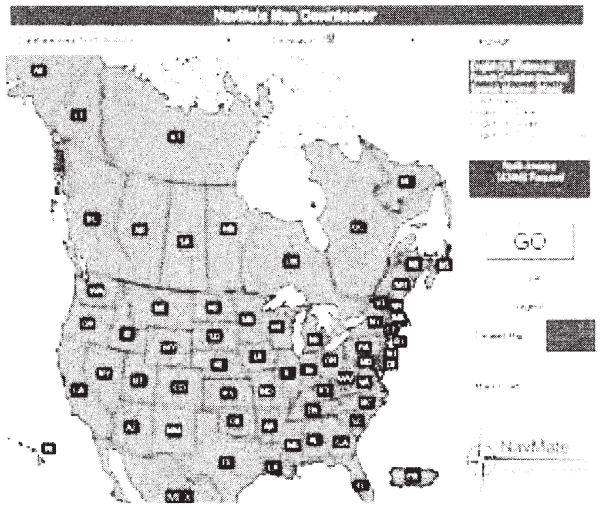
Select Language

To select the Language, click on the down arrow of the Language option and then select the voice guidance language you prefer.



Select The Destination

To select the Destination, click on the down arrow of the Destination option and then select the destination drive of the memory device.

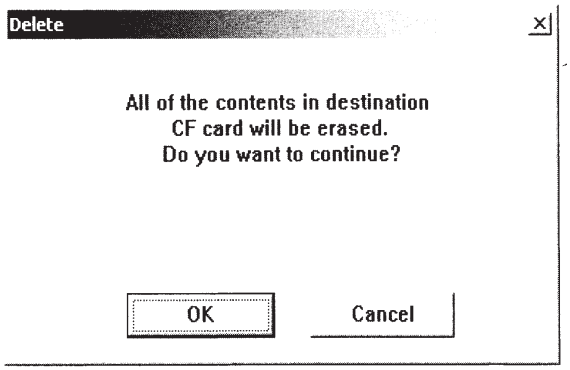


After making all the above selections click on "GO" button to start the downloading process.

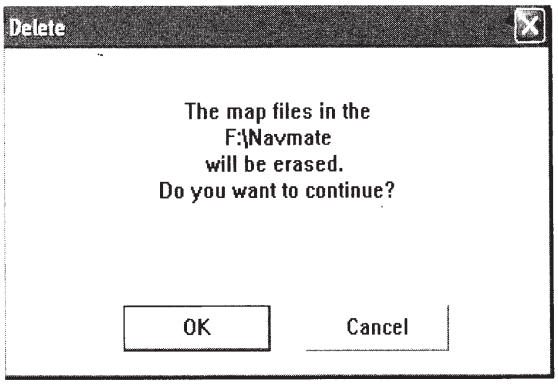
The Process of Copying

After the downloading process starts the following windows will appear based on the memory card device.

If the CF/SD card is connected then:

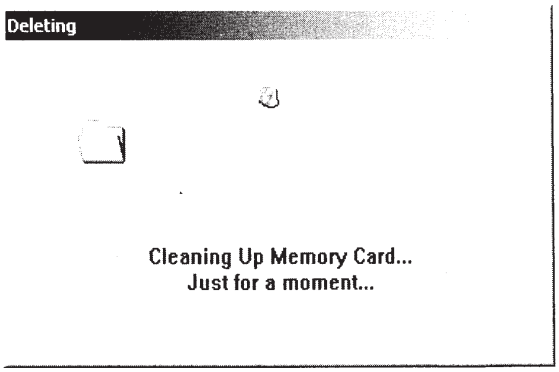


If HDD is connected then:

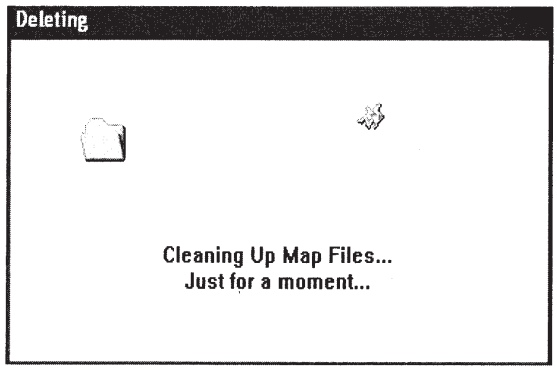


This process will backup the navigation data files from your memory card to a folder called \Navmate on your PC, and then it removes the navigation folder from the memory card. Click "OK" to continue the process.

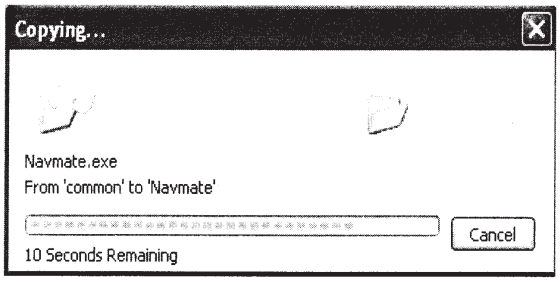
If the CF/SD card is connected then:



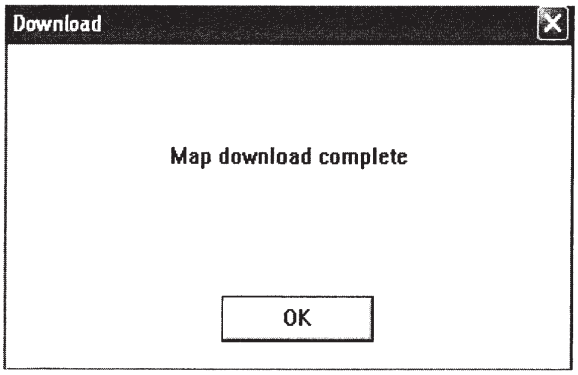
If HDD is connected then:



After backing up, the program will start copying/ downloading the files from DVD to memory device.



The window below will appear when copying/ downloading is complete:



Left click "OK" to exit this program.

Remove the Memory Device

Safely remove memory card from the memory card reader or disconnect the USB cable.

a. If the device is using CF/SD card , then left click "Unplug or Eject Hardware" icon on your PC then left "OK" at the "The 'USB Mass Storage device' device can now be safely removed from the system." Prompt. Remove your memory card from the memory card reader. The memory card is now ready for use.

b. If the device is using HDD, then disconnect the USB cable from the HDD navigation device. Now, the navigation unit is ready to use.

Backup

Backup utility is intended to store user specific data from the navigation unit to local drive.

- Data is copied from directory/Storage from root of unit to user selected destination directory. Entire content of the directory will be copied, including subdirectory.

- When backup utility is started, destination directory dialog appears. User can select directory by navigating through directory tree. User can choose OK to confirm directory selection or Cancel.

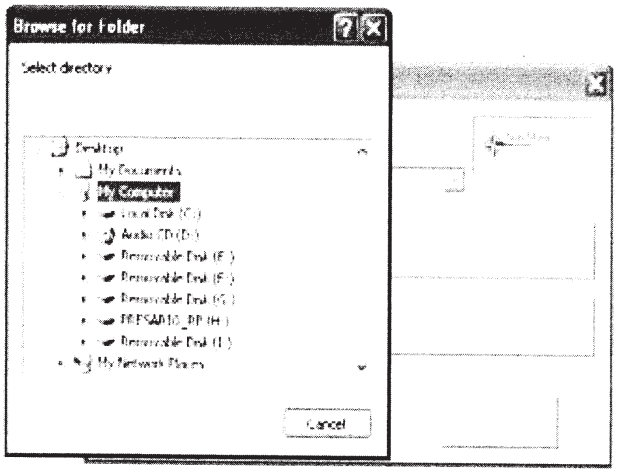
- When backup process is started, progress dialog box appears. The dialog has one "Cancel" button to interrupt the process. If process is interrupted no backup will take place.

- During backup operation, data is being copied from /Storage directory on the unit to directory YYYYMMDD.HHMMSS.nsu – where:

  YYYY – year, MM – month, DD – day
  HH – hour(0-24), MM – minutes (00..59)
  SS – seconds (00..59).nsu
  Eg. 20070606.121225.nsu

- If destination directory exists and is not empty, warning box appears to confirm overwrite of

files. The box contains OK and Cancel button. OK confirms operation to continue. Cancel terminates backup process.



Restore

Restore utility is intended for restoring of previously backed up data to unit and, also, to manage backed up data.

- When restore utility is started dialog box appears. This dialog contains current directory path and list of previously backed up data in current directory.

- Change current directory button (...) starts dialog to select directory. The dialog shows current directory and user can navigate through directory tree to choose new selection. If user presses OK new current directory will be set and backed up data list will be updated. Cancel button terminates the selection process and current directory will be not changed.

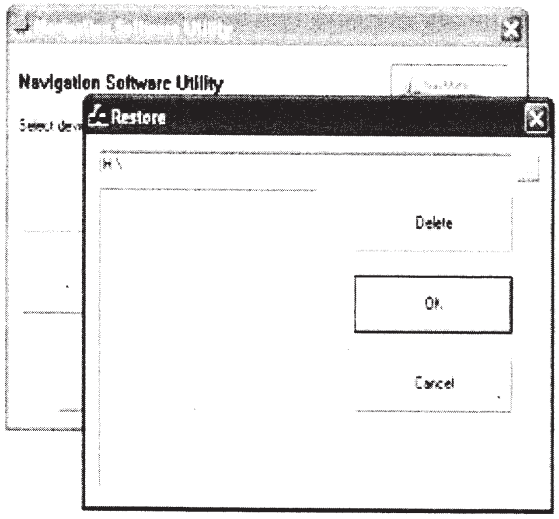
- Delete button allows selected backed up data directory to be deleted from list. After activation of this button, a warning to delete will pop up. If user confirms delete operation, selected data directory and its contents will be removed.

- Cancel button terminates the restore operation.

- Restore button starts the process of copying data from selected backup directory to Storage directory.

- If there is data in Storage directory, warning appears to confirm overwriting files. When restoring process is started, progress box appears.

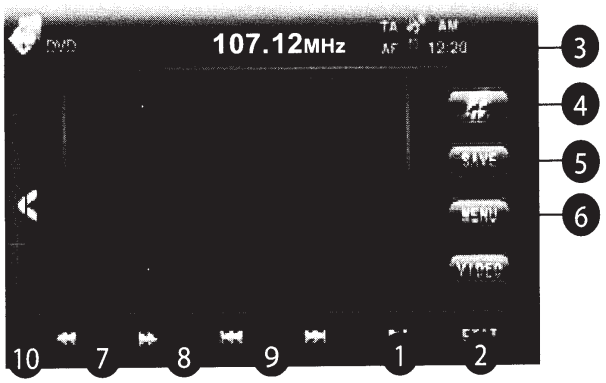
- The progress box contains a Cancel button to terminate the process if necessary. If the Cancel button is selected no data will be copied to the storage directory. If OK is selected on the progress box this allows the restore function to continue.



DVD/VCD/MP4

DVD/VCD/MP4 Setup

During DVD/VCD/MP4 playback, touching the top of screen shows the following menu:



1 ⏯ Play/Pause
2 EXIT Full Screen
3 **0-9** Number Keys
4 TITLE Click it to back to root menu
5 MENU Click it to enter DVD Setup menu
6 VIDEO Click it to enter VIDEO setup menu, see page 14 of the "Video Adjust"
7 ⏪ / ⏩ Fast reverse/Fast Forward
8 Display
9 ⏮ / ⏭ Previous Track/Next Track
10 Press it to enter SOURCE menu

DVD/VCD/MP4 Play

Insert a disc into the slot the unit will automatically switch on, if a disc is loaded, press DVD button on the main unit to start the playback. If the unit is in another mode, press DVD to switch to disc play.

Selecting Tracks Fast

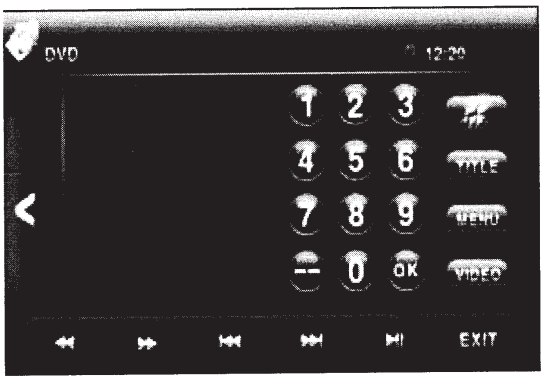
During DVD/VCD/MP4 playback, press **21**⏮ to play previous track, press **21**⏭ to play next track.

Note:
* Clicking ⏮/⏭ on the screen also performs the same function.

Number Buttons

Press one of **23 Number Buttons** (0~9) to select a track to be played.

Note:
* Clicking icon on the screen shows the following menu: number keys appear, touch the number to select track, click OK icon to play.



* Press **23 CLEAR** to clear mistaken input.

Pause the Playback

During DVD/VCD/MP4 playback, press **17** ⏸ to switch between play and pause. Press this button again to end pause.

Note:
* Clicking ⏯ on the screen performs the same function.

Stop the playback

During DVD/VCD playback, first press, 18 ■, then press **27** or **17** on the remote control to replay; press 18 ■ twice to stop playing completely, then press **17** to return to the beginning of the current track.

During MP4 playback, press ■ first, then press **17** to return to the beginning of the current track.

Note:
* This function is only available on the remote control.

Playing Tracks at Random

During DVD/VCD/MP4 playback, **16 RDM** button on the remote control to play any track at random under the directory which you select. Press it again to resume normal play.

Note:
* Clicking ⏯ on the screen performs the same function.

Repeat Playing

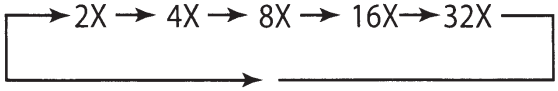
During DVD playback, pressing **15 RPT** on the remote control to perform replay function as follows:

During VCD/MP4 playback, press **RPT** on the remote control to TRACK REPEAT.

Note:
* This function is only available on the remote control.

Skip backward/forward/F.F/F. REW the playback

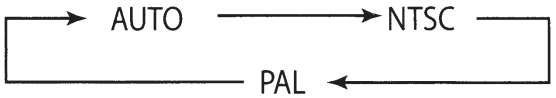
Press **20** (⏮ or ⏭) on remote control to perform fast rewind or fast forward. Each pressing will change as follow:



NOTE:
* Clicking ⏮ / ⏭ on the screen also performs the same function.

System Switch

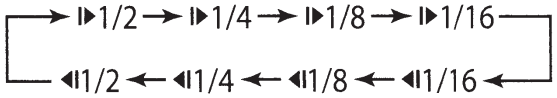
During DVD/VCD mode, Press **11 P/N** on remote control to set the TV standard to PAL or NTSC or AUTO system.



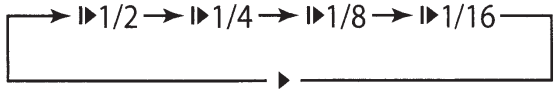
NOTE:
* This function is only available on the remote control.

Slow motion playback

During DVD mode, press **10** ⏯ to slow play. There are speeds as follows:



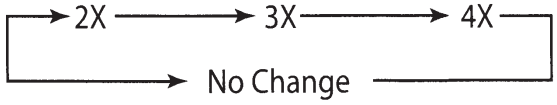
During VCD/MP4 mode, press **10** ⏯ to slow play. There are speeds as follows:



NOTE:
* The function is only available on the remote control.

Increase the size of picture

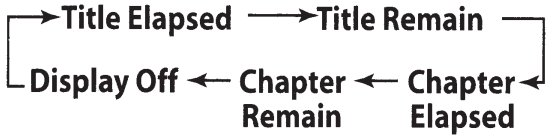
During DVD/VCD/MP4 mode, Press **9 ZOOM** to increase the picture size. The sizes are as follows, with the picture increasing in size each time **9 ZOOM** is pressed until the maximum size is reached.



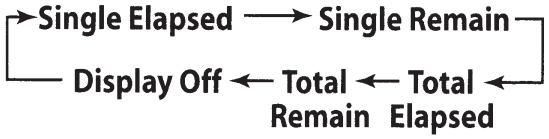
Note:
* The function is only available on the remote control.
* Remove the image by pressing **27** button.

On Screen Display

During DVD status, press **8 OSD** button the display shows:



During VCD/MP4 status, press **OSD** button the display shows:



Note:
* The function is only available on the remote control.

Setting the Playback Time

During DVD mode, press **2 GOTO** button to set the playing time, when the TFT display : ***title/chapter/audio/subtitle/angle/title time/ chapter time/repeat/time disp.***

Press **27** [▲][▼] to select the options, press **ENTER** to set the status. Then press NUMBER BUTTONS or **27** [▶][◀] to set the current status.

During VCD mode, press **2 GOTO** button to set the playing time, when the TFT display : ***/disc time/track time/repeat/time disp.***

Press **27** [▲][▼] to select the options, press **ENTER** to set the status. Then press **23** NUMBER BUTTONS or **27** [▶][◀] to set the current status.

During MP4 playback, first press **2 GOTO**, and monitor shows : ---, press your desired track by using number buttons and press **ENTER** to set the status. Second press **GOTO** button, and the monitor shows: **-:--:--**, input your desired time, then press **ENTER**.

Notes:
* The function is only available on the remote control.
* Press **22 CLEAR** to clear any mistaken input.

Changing audio language (Multi-audio)

DVDs can provide audio playback with different language. With DVDs featuring multi-audio recordings, you can press **6 AUDIO** to switch between languages and audio systems during playback.

Selection options switch as follows

AUDIO 1 —— AUDIO 2 —— AUDIO 3.....

Note:
* This function is only available on the remote control.
* This function only operates with DVDs featuring multi-audio recordings.
* The number in the "(2))" mark on a DVD's package indicates the number of recorded languages/audio systems.

Changing the subtitle language (Multi-subtitle)

With DVDs featuring multi-subtitle recordings. You can press **5 SUB-T** to switch between subtitle languages during playback.

Selection options switch as follows:

Subtitles 1 — Subtitles 2 —....— Subtitles OFF

Notes:
* This function is only available on the remote control.
* This function only operates with DVDs featuring multi-subtitle recordings.
* Refer to the DVD packaging to determine the subtitle languages available.

Changing the viewing angle (Multi-angle)

With DVDs featuring multi-angle (scenes shot from multiple angles) recordings, you can press **7 ANGLE** to switch among viewing angles during playback.

Selection options switch as follows:

ANGLE 1 —— ANGLE 2 —— ANGLE 3.....

Notes:
* This function is only available on the remote control.
* This function only operates with DVDs featuring multi-angle recordings.
* The mark on a DVD's package indicates whether it features multi-angle scenes. The number in the mark indicates the number of angles from which scenes were shot.
* **ANGLE** feature may not be used during fast forward, reverse or pause modes.

Selecting Channel

During VCD status, repeatedly press **6 AUDIO** button to select the following channel:

Selecting the corresponding channel to set the different sound characters.

Note:
* This function is only available on the the remote control.

Program Playing

During VCD mode, press **13 PROG**, the TFT displays the program menu. Press **NUMBER BUTTONS** to select the track Number and then press **27** to move the cursor to **START**, press **ENTER** to start program playing; move the cursor to EXIT and press **ENTER** to exit the program playing. Move the cursor to ⏮ and press **ENTER** to move back to the previous page; move the cursor to ⏭ and press **ENTER** to move forward to the next page.

At any time, press **18** ■ to cancel the program playing.

Note:
* The function is only available on the remote control.
* Press **22 CLEAR** to clear any mistaken input.

Playing PBC (Menu)

During VCD status, first press **3 TITLE**, PBC playback starts and **the menu of entire disc** appears on the monitor. You may then select your favorite track by using **23 Number Buttons**. When a track is playing, you can press **4 MENU** to return to the menu to select another track. To cancel PBC playing, press **3 TITLE** button again.

Note:
* This function is only available on the remote control.
* **PBC** playing is available for version 2.0 of VCD and SVCD discs only.

Selecting MENU

1 Selecting Menu: During DVD status, press **4 MENU** to return to the root menu, all of the chapters will appear on monitor. You can press **27** or **23** button to select your desired chapter.

2 Selecting Title: During DVD status, press **3 TITLE** to return to the title menu, all of the titles will appear on monitor. You can press **27** or **23** button to select your desired chapter.

Notes:
* Under DVD menu, touch the screen to select items.
* If your unit does not have the touch screen option or the disc does not support touch, pressing **TITLE+** on the remote control will display the titles. Then use the corresponding arrow button to select the desired title and • to enter your selected title.

DVD SETUP MENU

Press **19** SETUP on remote control or **MENU** on the main unit or on the monitor, then the main menu and sub-menu will appear on TFT. Press **27** [▲][▼][▸][◂] on the remote control to select your desired items, then press **ENTER**.

Press ▲ to go to the previous one, press **SETUP** or press [▲][▼][▸][◂] to move the cursor on "X", then press **ENTER** to exit the menu setup.

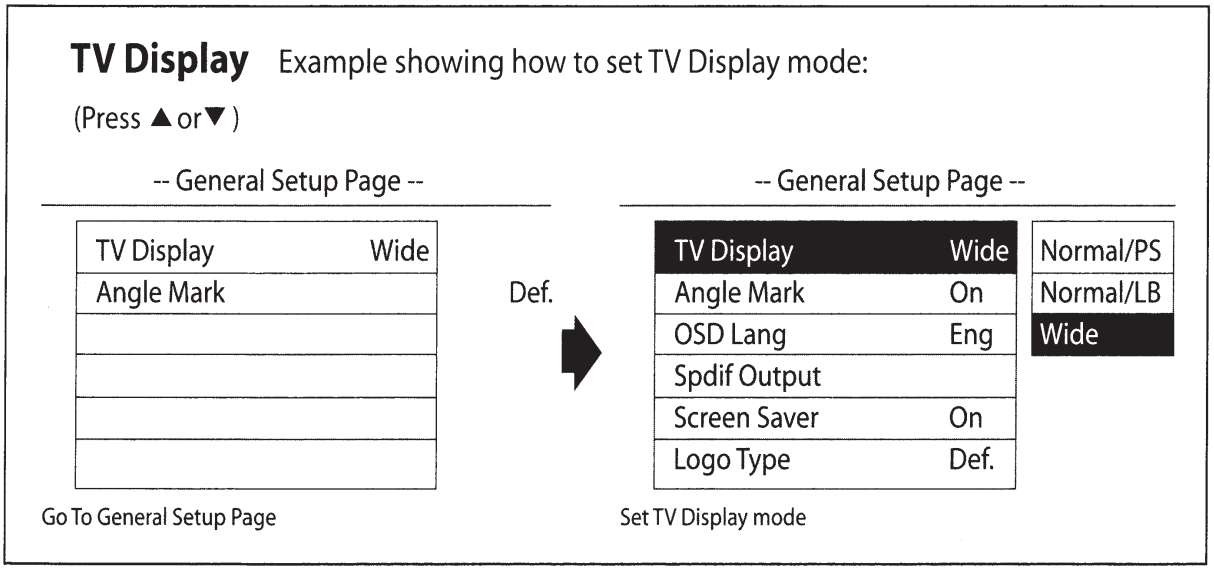
Notes:

* The selections are the preferred options that will be chosen if they are available on a disc. If the disc that is inserted does not have the preferred option then the discs own preference will be used.
* Regarding **SETUP MENU**, please refer to these following pages for more details.
* Some functions vary depending on the types or formats of the disc.
* Touch the screen to select menu, touch it again to select the item.

--General Setup Page—

TV Display Example showing how to set TV Display mode:

(Press ▲or▼)



Angle Mark Example showing how to set picture mode:

(Press ▲ or ▼) (Press ▶, ▲ or ▼, then press ENTER)

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

Go To General Setup Page

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

On
Off

Set Angle Mark

OSD Lang Example showing how to set language mode:

(Press ▲ or ▼) (Press ▶, ▲ or ▼, then press ENTER)

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

Go To General Setup Page

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

English

Set OSD Language

SPDIF Example showing how to set captions on/off:

(Press ▲ or ▼) (Press ▶, ▲ or ▼, then press ENTER)

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

Go To General Setup Page

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

Spdif Off
Spdif/Raw
Spdif/P cm

SPDIF

Screen Saver Example showing how to set Screen Saver on/off:

(Press ▲or▼)

-- General Setup Page --

TV Display	Wide
Angle Mark	On
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

Go To General Setup Page

(Press ▶, ▲ or ▼, then press ENTER)

-- General Setup Page --

TV Display	Wide	
Angle Mark	On	
OSD Lang	Eng	
Spdif Output		
Screen Saver	On	On
Logo Type	Def.	Off

Screen Saver

Logo Type Example showing how to set Logo Type:

(Press ▲or▼)

-- General Setup Page --

TV Display	Wide
Angle Mark On	
OSD Lang	Eng
Spdif Output	
Screen Saver	On
Logo Type	Def.

Go To General Setup Page

(Press ▶, ▲ or ▼, then press ENTER)

-- General Setup Page --

TV Display	Wide	
Angle Mark On		
OSD Lang	Eng	
Spdif Output		
Screen Saver	On	
Logo Type	Def.	Default
		Captured

Logo Type

--Downmix Setup--

DOWNMIX Example showing how to set Stereo mode:

(Press ▲or▼)

-- Downmix Setup --

DOWNMIX

Go To Downmix Setup

(Press ▶, ▲ or ▼, then press ENTER)

-- Downmix Setup --

DOWNMIX	Lt/Rt
	Stereo

Downmix (1+1) Setup

--Preference Page--

Audio Example showing how to set Audio language:

(Press ▲or▼)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

Go To Preference Page

(Press ▶, ▲ or ▼, then press ENTER)

-- Preference Page --

Audio	**Eng**
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

English
French
Spanish
Chinese
Japanese
Korean
Russian
Thai

Preferred Audio Language

Subtitle Example showing how to set subtitle language:

(Press ▲or▼)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

Go To Preference Page

(Press ▶, ▲ or ▼, then press ENTER)

-- Preference Page --

Audio	Eng
Subtitle	**Eng**
Disc Menu	Eng
Parental	
Default	

English
French
Spanish
Chinese
Japanese
Korean
Russian
Thai

Preferred Subtitle Language

Disc Menu Example showing how to set Disc Menu Language:

(Press ▲or▼)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

Go To Preference Page

(Press ▶, ▲ or ▼, then press ENTER)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	**Eng**
Parental	
Default	

English
French
Spanish
Chinese
Japanese
Korean
Russian
Thai

Preferred Menu Language

Parental Example showing how to set Parental Control:

(Press ▲or▼)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

Go To Preference Page

(Press ▶, ▲ or ▼, then press ENTER)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

1 Kid Sat
2 G
3 Pg
4 Pg 13
5 Pgr
6 R
7 Nc 17
8 Adult

Set Parent Control

Default Example showing how to set load factory setting:

(Press ▲or▼)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	

Go To Preference Page

(Press ▶, ▲ or ▼, then press ENTER)

-- Preference Page --

Audio	Eng
Subtitle	Eng
Disc Menu	Eng
Parental	
Default	Reset

Load Factory Setting

--Password Change—

Password Example showing how to set password, and the default password is 8888:

(Press ▲or▼)

-- Preference Page --

Password

Go To Preference Page

(Press ▶, ▲ or ▼, then press ENTER)

-- Preference Page --

Password	Change

Change Password

CD/MP3/SD/USB

CD/MP3/SD/USB Setup

During CD/MP3/SD/USB playback, touching the top of screen shows the following menu:

1 Play/Pause
2 EXIT Full Screen
3 **0-9** Number Keys
4 TITLE Click it to back to root menu
5 MENU Click it to enter DVD Setup menu
6 VIDEO Click it to enter VIDEO setup menu, see page 14 of the "Video Adjust"
7 / Fast reverse/Fast Forward
8 Display
9 / Previous Track/Next Track
10 Press it to enter SOURCE menu

CD/MP3/SD/USB Play

Insert a CD/MP3 disc into the slot, the unit will play automatically.

Remove the rubber plug **USB** or **SD card**, to insert USB or SD card and it will play automatically.

If a disc/USB/SD Card is inserted select DVD button on the unit to play, or back to play source menu, and select DVD to play.

Notes:
* At present our products can only support up to 16GB of the SD card or USB.

Selecting Tracks Fast

During MP3/SD/USB playback, press **21** ⏮ to play previous track, press **21** ⏭ to play next track.

During CD playback, press **21** ⏮ to repeat the current track, and in 3 seconds press **21** ⏮ to play previous track, press **21** ⏭ to play next track.

Notes:
* Clicking / on the screen also performs the same function.

Repeat Playing

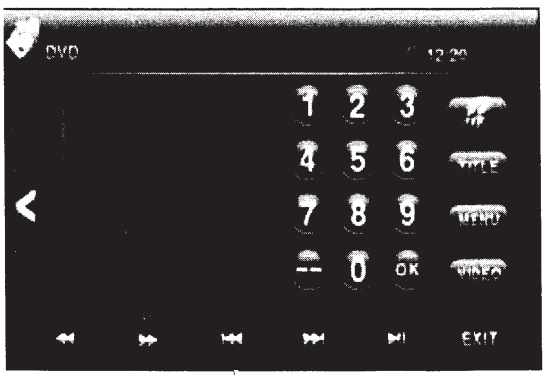
During CD/MP3/SD/USB playback, press **15 RPT** to replay the current track, press it again to replay all.

Notes:
* This function is only available on the remote control.

Number Buttons

Press one of **23 Number Buttons** (0~9) to select a track to play.

Notes:
* Clicking " " icon on the screen shows the following menu: number keys appears, touch the number to select tracks, click OK icon to play.



Notes:
* Press **22 CLEAR** to clear any mistaken input.
* During CD/MP3 mode, the upper left corner displays "DVD" ; during USB/SD mode, the upper left corner displays "USB/SD".

Playing Tracks at Random

During CD/MP3/SD/USB playback, press **16 RDM** button on the remote control to play any track at random. Press it again to resume normal playing.

Notes:
* This function is only available on the remote control.

Stop Play

During CD/MP3/SD/USB playback, Press **18** ■ to stop the playback.

Notes:
* This function is only available on the remote control.

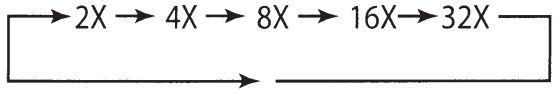
Pause the Playback

During CD/MP3/SD/USB playback, Press **17** ⏸ to switch between play and pause.

Notes:
* Clicking ⏯ on the screen performs the same function.

Skip backward/forward/F.F/F.REW

Press **20** (◂◂ or ▸▸) on remote control to perform rewind or fast forward.



Notes:
* Clicking ⏮ / ⏭ on the screen also performs the same function.

Selecting Track

During CD playback, first press **2 GOTO**, and TFT shows : ***disc go to:--:--***, press your desired time of the playback by using number buttons.

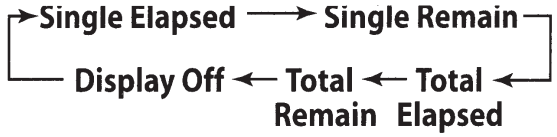
Second press GO TO button, ***track go to:--:--*** appears on TFT, also input your desired numbers to play the current time of your selection.

During MP3/SD/USB mode, first press **2 GOTO** and the TFT shows:---. Then press NUMBER BUTTONS to input the MP3/SD tracks Number to play it; secondly press **GOTO** button, and the TFT shows : --:--, now input the desired time to play the current track at this point.

Notes:
* This function is only available on the remote control.
* Press **22 CLEAR** to clear any mistaken input.

On Screen Display

During CD status, press **OSD** button the display shows:



Note:
* This function is only available on the remote control.

Program Playing

During VCD mode, press **13 PROG**, the TFT displays the program menu. Press **NUMBER BUTTONS** to select the track Number and then press **27** to move the cursor to START, press **ENTER** to start program playing; move the cursor to EXIT and press **ENTER** to exit the program playing. Move the cursor to ⏮ and press **ENTER** to the previous page; move the cursor to ⏭ and press **ENTER** to the next page.

During this process, press **18** ■ to cancel the program playing.

Notes:
* The function is only available on the remote control.
* Press **22 CLEAR** to clear any mistaken input.

Eject SD Card

Push SD card to eject it.

If the SD Card is ejected during the SD play mode, the unit will automatically default to disc mode. If there is no disc in the unit, it will default to the USB mode and then the Radio mode.

If the SD Card is ejected while the unit is in any other mode the unit will remain in its current mode.

Eject USB

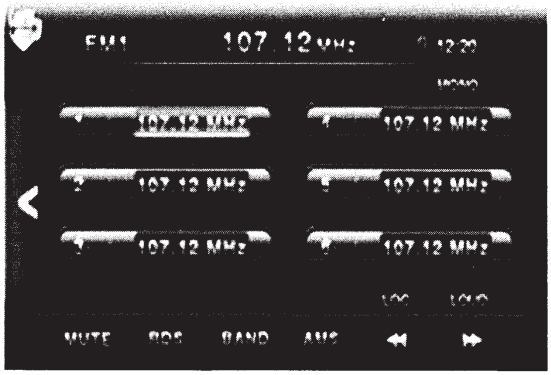
Pull USB to eject it.

If the USB is ejected during the USB play mode, the unit will automatically default to disc mode. If there is no disc in the unit, it will default to the SD Card mode and then to the Radio mode.

If the USB is ejected while the unit is in any other mode the unit will remain in its current mode.

TUNER

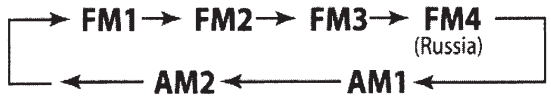
Listening to the Radio



1 **Band Indicator**
Shows which band the radio is tuned to.
2 **Preset Number Indicator**
Shows what preset has been selected
3 **Frequency Indicator**
Shows which frequency the tuner is tuned to
4 ◂◂ / ▸▸
Press lightly to view presets. Hold to tune to desired station.
5 **Presets**
Press to select station, press and hold to save the current station to one of the six presets.
6 **Band**
To select the bands
7 **AMS (Automatic Memory Selection)**
Press lightly to scan the current stations, press and hold to tune to another station.
8 **RDS**
Press it to enter the RDS SETUP MENU.
9 **Mute**
Press this button to silence unit
10 **<**
Press this button to go back to the SOURCE menu

Band Selector

During radio status, repeatedly press **3 BAND** button to select bands in the following order:



Note:
* Clicking **6** on the screen performs the same function

Manual/Automatic Tuning

Manual Tuning: Briefly press **20** (⏩ or ⏪) button on the remote control to select the different bands.

Automatic Tuning: Press and hold **20** (⏩ or ⏪) button the radio automatically searches a station downward or upward respectively and plays when it finds a station.

Note:
* Clicking **4** on the screen performs the same function.

DX/LOC Selector

During radio mode, press **5 LOC** button to determine station strength. When "LOC" appears on the display only local stations are available. When it disappears both distance and local stations can be received.

Notes:
* The function is only available on the remote control.
* This function is not available in the AM band.

Select the Stored Station

During radio mode, press **27** ▲ button to select the stored station upward, press ▼ to select the stored station downward.

Note:
* The function is only available on the remote control.

MO/ST Selector

During radio mode, you can press **6 ST** button on the remote control to select MONO mode or STEREO mode.

Stereo mode is available when "STEREO" appears.

It is in MONO mode when "MONO" appears.

Notes:
* It is only available on the remote control.
* Switch to MONO to improve the listening quality when encountering a weak signal.
* It is only available in the FM band.

Scanning/Memorizing Stations Automatically

During Radio mode, briefly press **4 AMS** button on the remote control to scan stored stations from 1-6. You can press corresponding number button to select your desired station.

Press and hold **4 AMS** button to activate automatic memory storing function. The radio will automatically select a station and store it in one of the positions 1-6.

Notes:
* The unit can store up to 6 stations for each band.
* Clicking "AMS" on the screen performs the same function.

GOTO TV

Press **2 GOTO** , and the monitor will show: FREQ. Press the Number to choose your desired TV station.

It is only available on units with TV Tuner option.

Number Buttons

During radio mode, press Number Buttons to tune to stored stations.

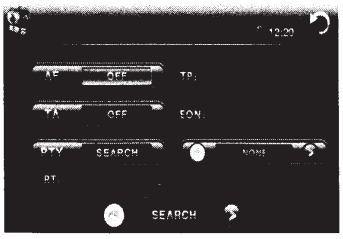
During radio mode, **Number Buttons** (from 1 to 6) can help you store your favorite station. You can follow the instructions below:

1.When tuned to a desired station, press and hold any one of the Number Buttons (from 1 to 6) until the number appears on the LCD. This indicates that station is stored at the corresponding number location.

2.Press and hold **4 AMS** button to have unit seek and store stations automatically, in 1 to 6 respectively.

3.When listening to a preset station, you may press and hold a number button for 3 seconds to reassign it to a new preset location.

RDS SETUP



1.AF (Alternative Frequency)

Press to activate AF Function

2.TA (Traffic Alert)

Press to activate TA Function

3.SEARCH [<] [>]

Press to tune automatically - backward [<] or forward [>]

4.PTY (Program Type)

Press to activate PTY function

5.While PTY is activated, press this to search for program type

6.BACK

Press to return to radio listening

Alternative Frequencies (AF)

Briefly press (26) AF to activate the auto search station function.

When AF is on, and signal is weak or not available, only those preset frequencies or standard bands can be displayed.

Note

*Above function is also performed by pressing [1] on the monitor as shown in RDS screen image.

Traffic Alert (TA)

Briefly press (25) TA to activate the traffic alert function. When AF is activated, **TA** will display on LCD.

If there is no TP information, the mode will search TP stations automatically.

TA will be green when played by station. If not then **TA** will be yellow.

When **TA** is active, volume will automatically adjust to TA level when in other modes (such as DVD, AUX).

If a **TA** is active, the mode will skip to RDS status automatically. It will then resume primary mode after **TA** is completed.

Note

*Briefly press **TA** on head unit or [2] on monitor as shown in RDS screen image.

*When **TA** is off, no Traffic Alerts will be displayed on LCD.

Program Type (PTY)

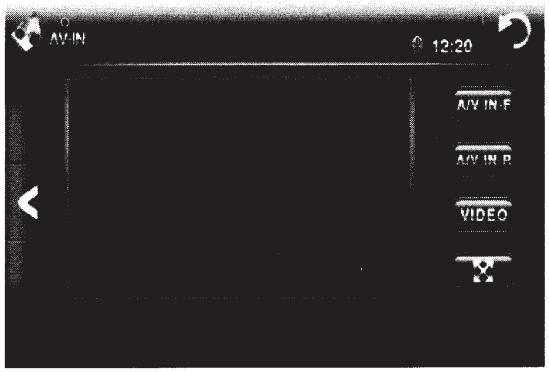
Briefly press (7) **PTY** or [4] on the monitor to activate **PTY** function

When **PTY** is on, **PTY** displays on screen, and you can press [<] [>] to select program type. While searching, screen will display **PTY SEARCH.**

If **PTY** is off, **PTY OFF** displays on screen and searching is not accessible.

AUX Touch Screen Menu

Click AUX on the SOURCE menu to switch to the AUX mode:



1 Full screen
2 Display
3 AUX-F Click it to enter front AUX IN.
4 AUX-R Click it to enter rear AUX IN.
5 VIDEO Click it to enter VIDEO setup menu, see page 14 of the "Video Adjust".
6 Click it to enter SOURCE menu.

Bluetooth Operational Interface

Press **28 BT** on the remote control or BT in the monitor to open the bluetooth operational interface:

1 **Number Buttons**
To input the phone number
2 **Dial, redial last number, answer a phone call**
3 **Hang up, refuse a phone call**
4 **Display**
5 **PAIR**
6 **ACH (audio change)**
7 **POWER**
Press it to turn on or turn off the Bluetooth function
8 **C (Clear)**
9 **PAUSE/PLAY**
10 / Previous/Next
11 Press this button to go back to SOURCE menu

Using a Bluetooth Wireless Connection

The device can be dialed wirelessly in bluetooth status. Before using the Bluetooth function, please turn on your cellphone Bluetooth function.

Notes:
* To provide the best sound without or little distorted sound (the cellphone or network brings).
* Full duplex conversation.
* Bluetooth ver2.0 compliant.
* The unit has own MIC.

Pairing Your Unit and Bluetooth Phone

The device supports hands-free profile, head-set profile, A2DP (Audio Advanced Distribution profile) and AVRCP (Audio Video Remote Control profile). Follow the pairing instruction for the first time use, after that the unit will connect automatically.

Pairing in Hands-free Mode 1

1 Press **29 PAIR**, and PAIRING shows on the screen.
2 Get into **CELLPHONE CONNECTION** to search devices;
3 If the cellphone has connected, PAIR SUCCESS appear and then CONNECT in order, ᛒ will change from blue to red.

Note:
* Clicking **5** on the screen also performs the same function.

Cellphone Pairing Mode

1 Browse your cellphone menu and find the connectivity or Bluetooth connection section.
2 Select **search for** a new handsfree device function and allow the phone to find the mobile phone. (Different cellphones have different bluetooth menus, please refer to your phone manual.)
3 When **CAR A/V DEVICE** appear, select this item. (if it can not be connected, please refer to mobile manual, and try again.)
4 To input the password, the password is: 1234.
5 Press the connect with the Handsfree option on your cellphone, and **CONNECT** appears.

Bluetooth Connection and Disconnection

When you have established Bluetooth connection between this unit and the cellphone, Bluetooth icon ᛒon the display appears in red. Press **29 PAIR** to turn off Bluetooth connection, and ᛒappears in blue. Press **29**, **PAIR SUCCESS** appear on the display, then display shows **CONNECT** when Bluetooth connected; display shows **PAIRING TIME OUT**, when Bluetooth disconnected.

Notes:
* Please keep the phone charged, or Bluetooth connection will be lost.
* To ensure connection success
  ----Delete menu of cellphone with Bluetooth
  ----Reset the unit and cellphone.
  ----Reset every step of pairing.
* Disconnect after pairing
  ----Please pair the phone in manual.
  For example: pairing fixture —cellphone —connect.
* Pressing **5** on the monitor also performs the same function.
* Press **7** on the monitor to turn off the Bluetooth function.

Using the Unit as a Hands-free Device

When a call is incoming, call from and the phone number ID****** will be diplayed,
To accept call: Press **30** ↷ to answer a call, it appears **PICK UP** on the display.
To reject call: Press **31** ↶ to reject a call, it appears **REJECT** on the display.
To end call: Press ↶ to end call, and **HANG UP** appears on the display.

Notes:
* Some cellphones do not support reject call during Bluetooth mode.
* Pressing **2** and **3** on the monitor performs the same function.

Last Number Dialing

Press **30** ↷ button, and your last dialed number will be displayed, press ↷ again, and then **PICK UP** will appear on the display when the call is answered.

Notes:
* Pressing **2** on the monitor performs the same function.
* To dial the number of the unit in the car only.

To Dial by Cellphone

1. The unit is activated automatically when you make a call by cellphone, and **DIAL OK** appears.
2. When you receive a call, **PICK UP** appears on the display.

To Dial by the Unit

When cellphone is connected, press **23** to input the call number, then press **30** ↷ to dial, **DIAL OK** appears, when the call is answered, **PICK UP** appears on the display.

Notes:
* Press **22 CLEAR** on the remote control or **8** in the monitor to delete mistaken inputs.
* Pressing **1** and **2** in the monitor also performs the same function.

Using the Unit as Bluetooth Music

During bluetooth mode, any music downloaded to the cellphone may be played through the unit.
To select music: press **21** ⏮ to play the previous track, press ⏭ to play the next one.
Pause play: press **17** ⏸ to pause play.
Stop play: press **18** ■ to stop play, and press the **PLAY** to play the current track again.

Notes:
* Pressing **9** in the monitor also can play and pause music.
* Pressing **10** in the monitor also can play the previous/next track.

Audio Transfer between the Unit and Phone

Press **6** to change a conversation from the Bluetooth mode of the unit to the cellphone for privacy.

Note:

* This will cause the Bluetooth link to be disconnected in some phones. To reconnect, call back to Bluetooth on unit, press **6** button again.

iPod

iPod play

In IPOD mode, connect the IPOD wire (5V) to the rear of main unit. If an IPOD is connected press **SRC** to switch to the IPOD mode:

MENU Back to the previous menu.
(First connect, click and hold it to go back to root menu.)

Briefly press to play previous track, press and hold to fast forward.

Briefly press to play next track, press and hold to fast reward.

Play/ pause

Click it to turn page up.

Click it to turn page down

Click it to back to the SOURCE menu

Selecting Tracks Fast

During IPOD mode, first press **21** ⏮ to return to the beginning of the current track, press **21** ⏮ again within 3 seconds to play previous track, press **21** ⏮ to play next track .

Note:
* Clicking ⏮ / ⏭ on the screen performs the same function

Playing Track F.F/REW

Press **20** ⏩ or ⏪ to play the track fast forward or rewind . Press it again or press **ENTER** to return to normal playback.

Note:
* Clicking ⏮ / ⏭ on the screen performs the same function

Repeat

During playback, press **15 RPT** to repeat track, repeat disc, or turn off repeat function.

Note:
* This function is operated by using the remote control only.

Playing Tracks at Random

During IPOD mode, press **16 RDM** button, **Shuffle off, Shuffle Track, Shuffle Album** will be activated.

Note:
* This function is operated by using the remote control only.

Pause the Playback

During IPOD mode, press **17** ⏯ button to pause the playback, Press it again to return to normal playback.

Note:
* Clicking ⏯ on the screen also performs the same function.

File Selector

During IPOD mode, press **19 SETUP** on the remote control to go back to the previous catalog.

Press **21** ⏭ to select the previous 5 tracks, press ⏮ to select the next 5 tracks (as shown in the picture).

Note:

* Clicking **MENU** on the screen and ▲/▼ also perform the same function.

Eject IPOD

During IPOD mode, if the IPOD is removed, the main unit will revert back to previous mode.

Additional Information

Simple Troubleshooting Guide

The following checklist might help to solve the problems you may encounter when using the unit. Please double check and make sure the connection and the procedure of operation is proper before using the checklist below .

Problem	Cause/Solution
No Power	Check and make sure whether the fuse is not blown, replace with the proper amperage if needed.
Some errors occur in the LCD or no function when pressing the button	Press RESET button.
Unable to receive stations	Check and make sure the antenna is inserted or the antenna is properly connected, if not, insert the antenna or connect it properly.
CDs cannot be loaded	A CD is loaded in the mechanism.
Sound skips	The CD is dirty or damaged.
Images skip	Improper setting of the color system. Set the color system to "PAL" or "NTSC" according to the selected television station.

Note:
* If any of the problems persist after a check of this list has been made, consult your nearest service dealer. Never attempt to disassemble your unit by yourself.

Due to continuous product improvement, product operation is subject to change.

INSTALLATION INSTRUCTIONS FOR PART 95-7313

APPLICATIONS

2001-2006 Hyundai Elantra

2003-2008 Hyundai Tiburon

2002-2005 Hyundai Sonata

2001-2006 Kia Optima ***(2006 Early Production Models Only)***

95-7313

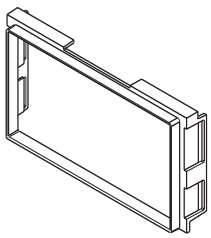
KIT FEATURES

- DDIN Head Unit Provision
- STACKED ISO DIN Head Unit Provision

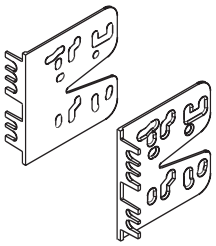
KIT COMPONENTS

A) DDIN Trim Plate | B) DDIN Brackets

A

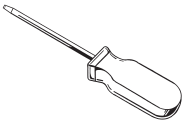


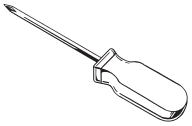
B



TOOLS REQUIRED:

Flat Blade Screwdriver | Phillips Screwdriver





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95-7313

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2001-2006 HYUNDAI ELANTRA

1 Disconnect the negative battery terminal to prevent an accidental short circuit.

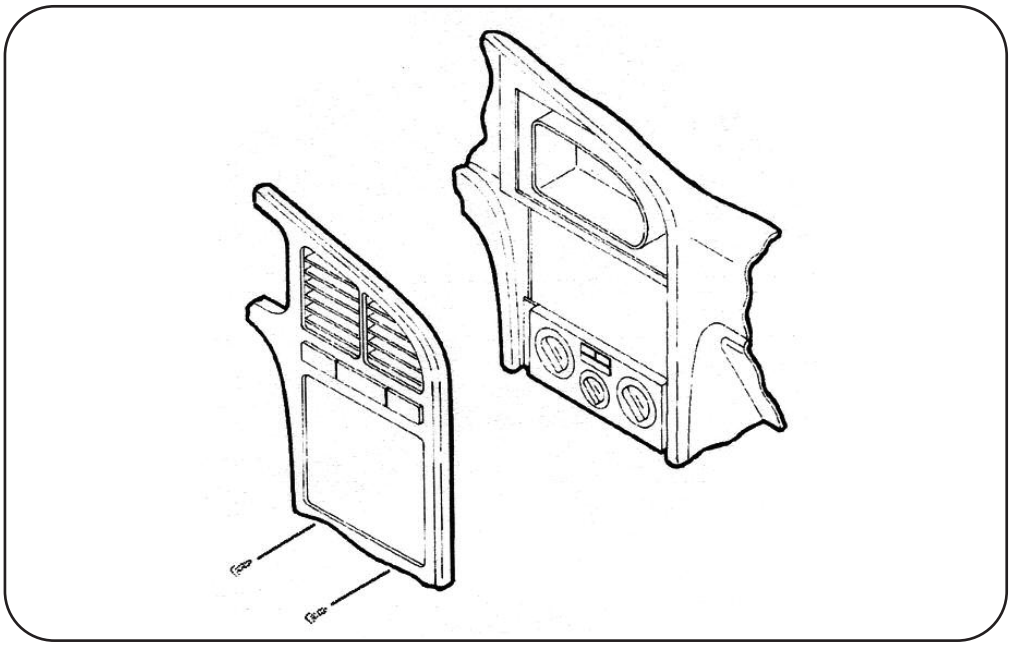
2 Remove (2) Phillips screws from under the instrument cluster.

3 Remove ashtray then remove (2) Phillips screws in ashtray cavity.

4 Unclip and remove panel surrounding radio. **(Figure A)**

5 Remove (4) Phillips screws securing radio.

A



DASH DISASSEMBLY

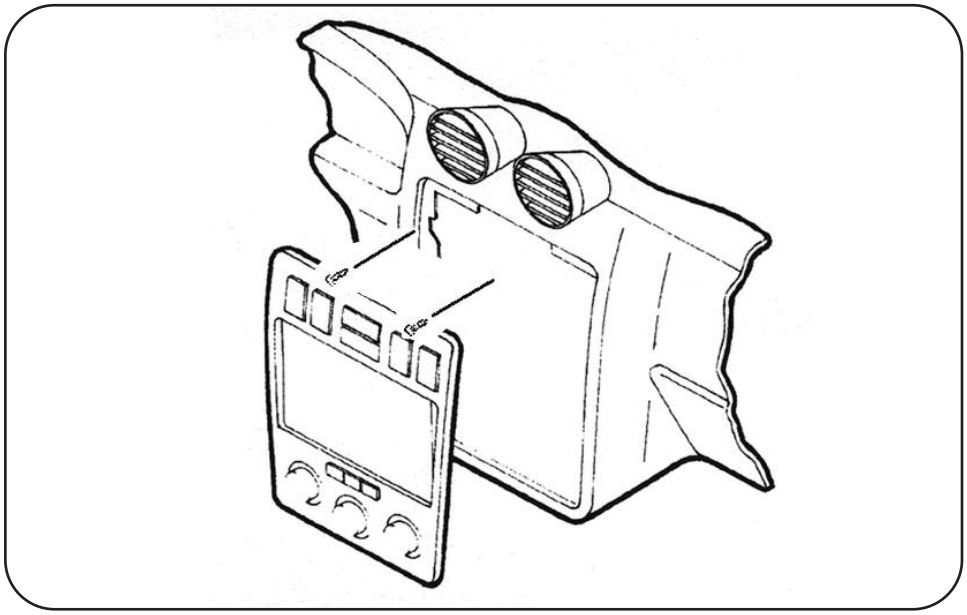
2003-2008 HYUNDAI TIBURON

1 Disconnect the negative battery terminal to prevent an accidental short circuit.

2 Unclip and remove the radio trim panel starting with the bottom edge. **(Figure A)**

3 Remove (2) Phillips screws securing radio.

A



2002-2005 HYUNDAI SONATA
2001-2005 KIA OPTIMA

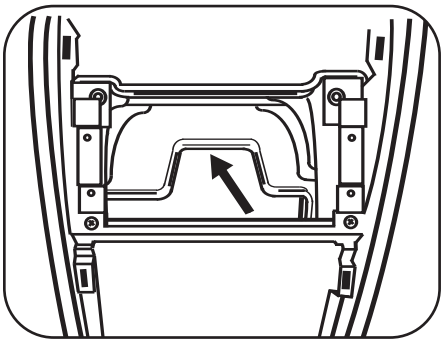
1 Disconnect the negative battery terminal to prevent an accidental short circuit.

2 Unclip and remove entire panel surrounding radio. **(Figure A)**

3 Remove (4) Phillips screws securing radio.

4 The rear support bar in the sub dash will need to be cut and removed for aftermarket radio clearance. **(Figure B)**

B



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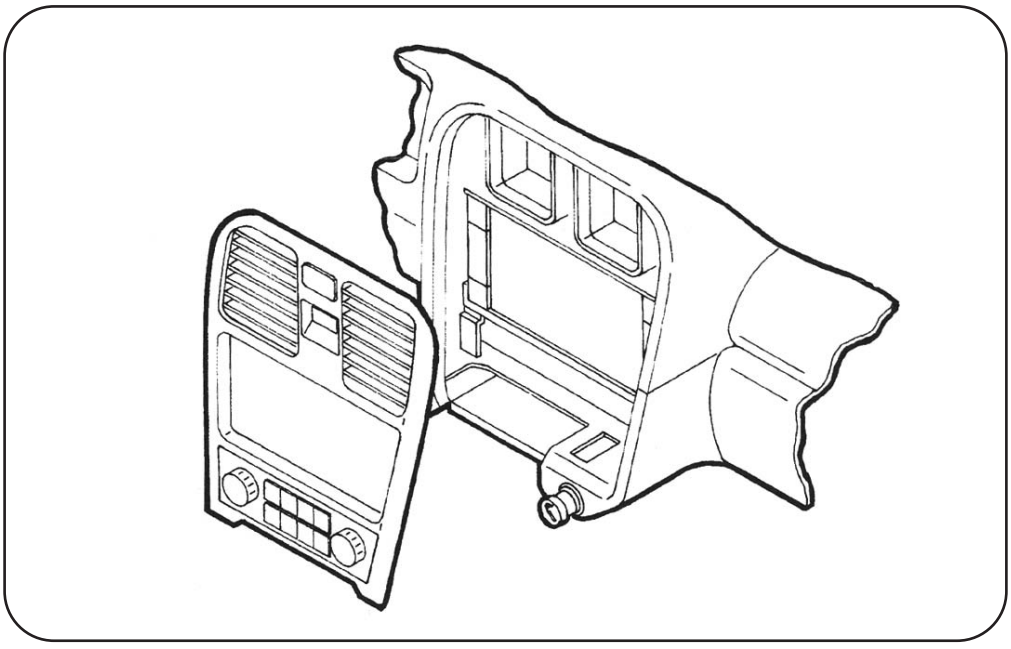


2006 KIA OPTIMA *(2006 Early Production Models Only)*

DASH DISASSEMBLY

1 Disconnect the negative battery terminal to prevent an accidental short circuit.

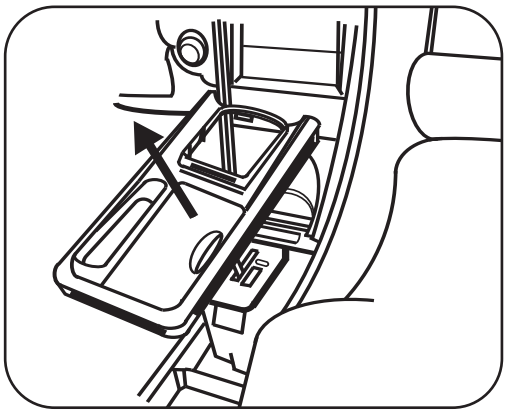
2 Unclip and remove panel surrounding shifter. **(Figure A)**

3 Remove (2) Phillips screws at bottom of panel surrounding radio and climate control then unclip and remove entire panel. **(Figure B,C)**

4 Remove (4) Phillips screws securing radio. **(Figure D)**

5 The rear support bar in the sub dash will need to be cut and removed for aftermarket radio clearance. **(Figure E)**

A



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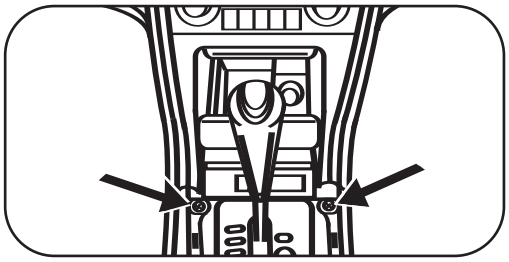
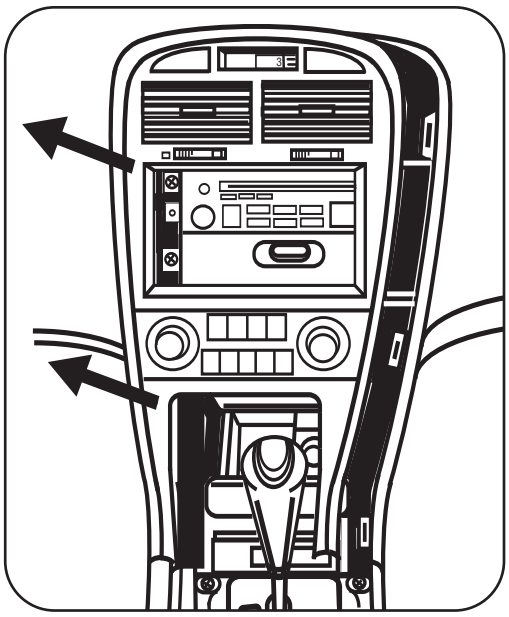


C



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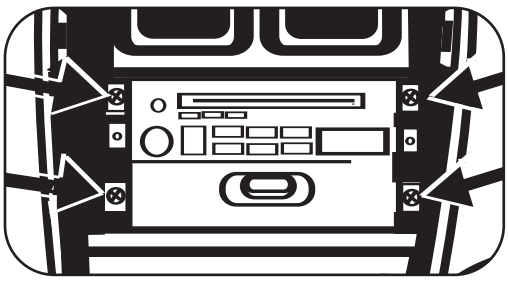

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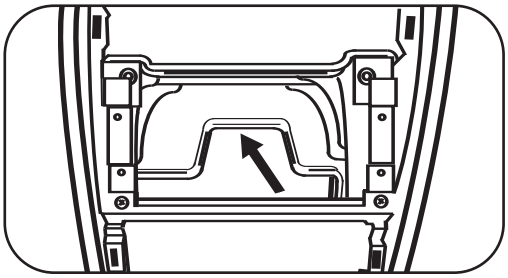


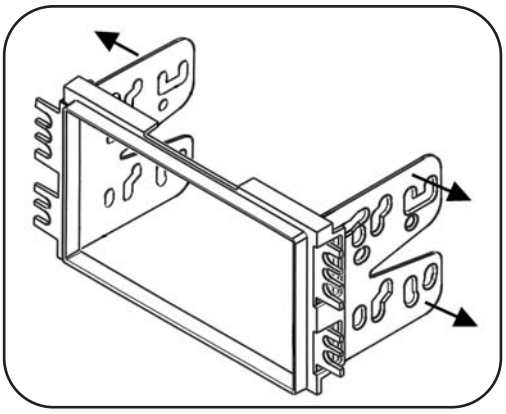
DOUBLE DIN HEAD UNIT PROVISION

1 Slide the appropriate bracket into the trim plate aligning the holes in the trim plate to the clips on the bracket. **(Figure A)**

2 Slide the DDIN radio unit into the trim plate bracket assembly and secure the unit to the kit using the screws supplied with the head unit. **(Figure B)**

NOTE: For the 2003-2008 Hyundai Tiburon applications you will need to cut and remove the bottom mounting tabs on the DDIN brackets. **(Figure C)**

A



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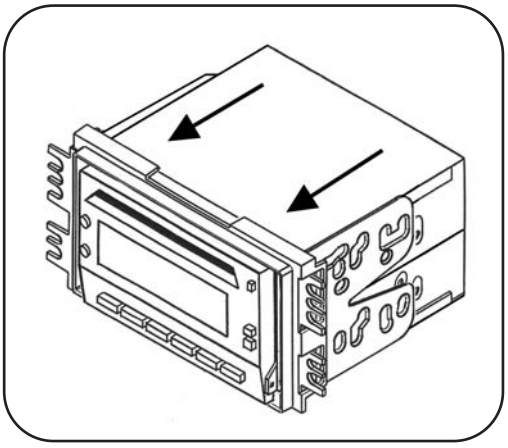

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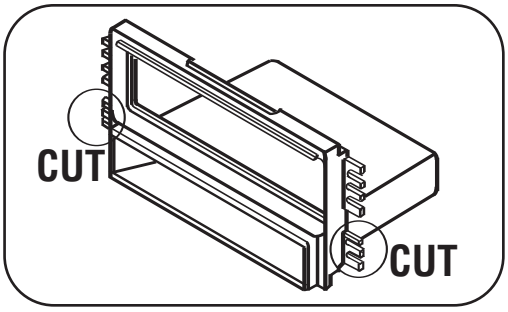
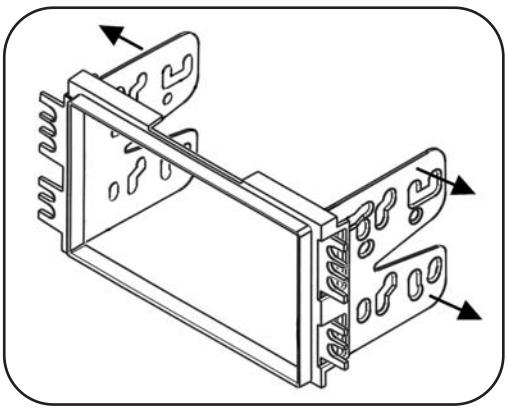


KIT ASSEMBLY

STACKED ISO DIN HEAD UNIT PROVISION

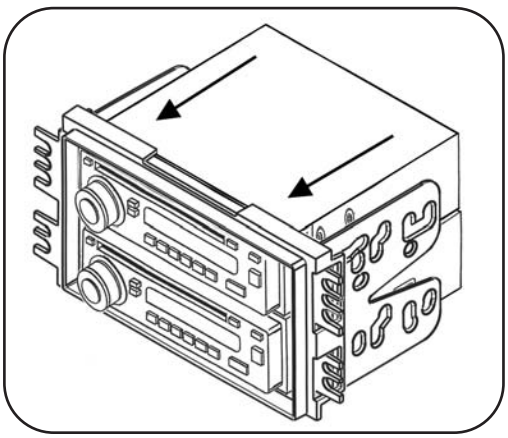
1 Slide the appropriate bracket into the trim plate aligning the holes in the trim plate to the clips on the bracket. **(Figure A)**

A



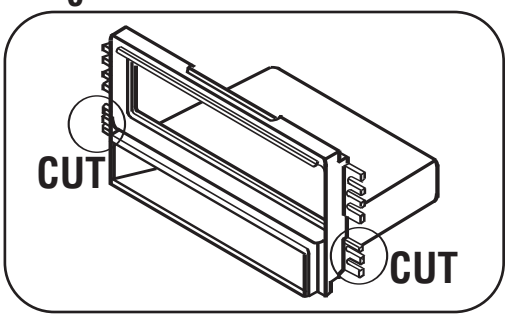
2 Slide the stacked ISO DIN units into the trim plate bracket assembly and secure the unit to the kit using the screws supplied with the head unit. **(Figure B)**

B



NOTE: For the 2003-2008 Hyundai Tiburon applications you will need to cut and remove the bottom mounting tabs on the DDIN brackets. **(Figure C)**

C

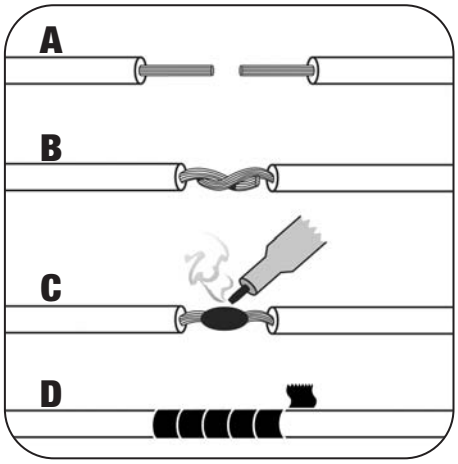


FINAL ASSEMBLY

1. Locate the factory wiring harness in the dash and make the connection as shown. Metra recomends using the proper mating adapter and making the connections as shown. (Isolate and individually tape off the ends of any unused wires to prevent electrical short circuit.)
2. Re-connect the negative battery terminal and test the unit for proper operation.
3. Reassemble radio and dash assemblies in reverse order of disassembly.

FINAL WIRING CONNECTIONS

Make wiring connections using the EIA color code chart shown below and the instructions included with the head unit. Metra recommends making connections as shown below; Strip, Splice, Solder, Tape. Isolate and individually tape off ends of any unused wires to prevent electrical short circuit.



A) Strip wire ends back 1/2"
B) Twist ends together
C) Solder
D) Tape

METRA / EIA WIRING CODE

12V Ignition / Acc . . . Red	Right Front (+) . . . . . Gray
12V Batt / Memory . . Yellow	Right Front (-). . . . . Gray / Black
Ground . . . . . Black*	Left Front (+) . . . . . White
Power Antenna . . . . . Blue	Left Front (-). . . . . White / Black
Amp Turn-On . . . . . Blue / White	Right Rear (+). . . . . Violet
Amp Ground . . . . . Black / White	Right Rear (-) . . . . . Violet / Black
Illumination. . . . . Orange	Left Rear (+). . . . . Green
Dimmer . . . . . Orange / White	Left Rear (-) . . . . . Green / Black

***NOTE:** When Black a wire is not present, ground radio to vehicle chassis.
All colors may not be present on all leads due to manufacturer's specifications.

95-7313 INSTRUCTIONS

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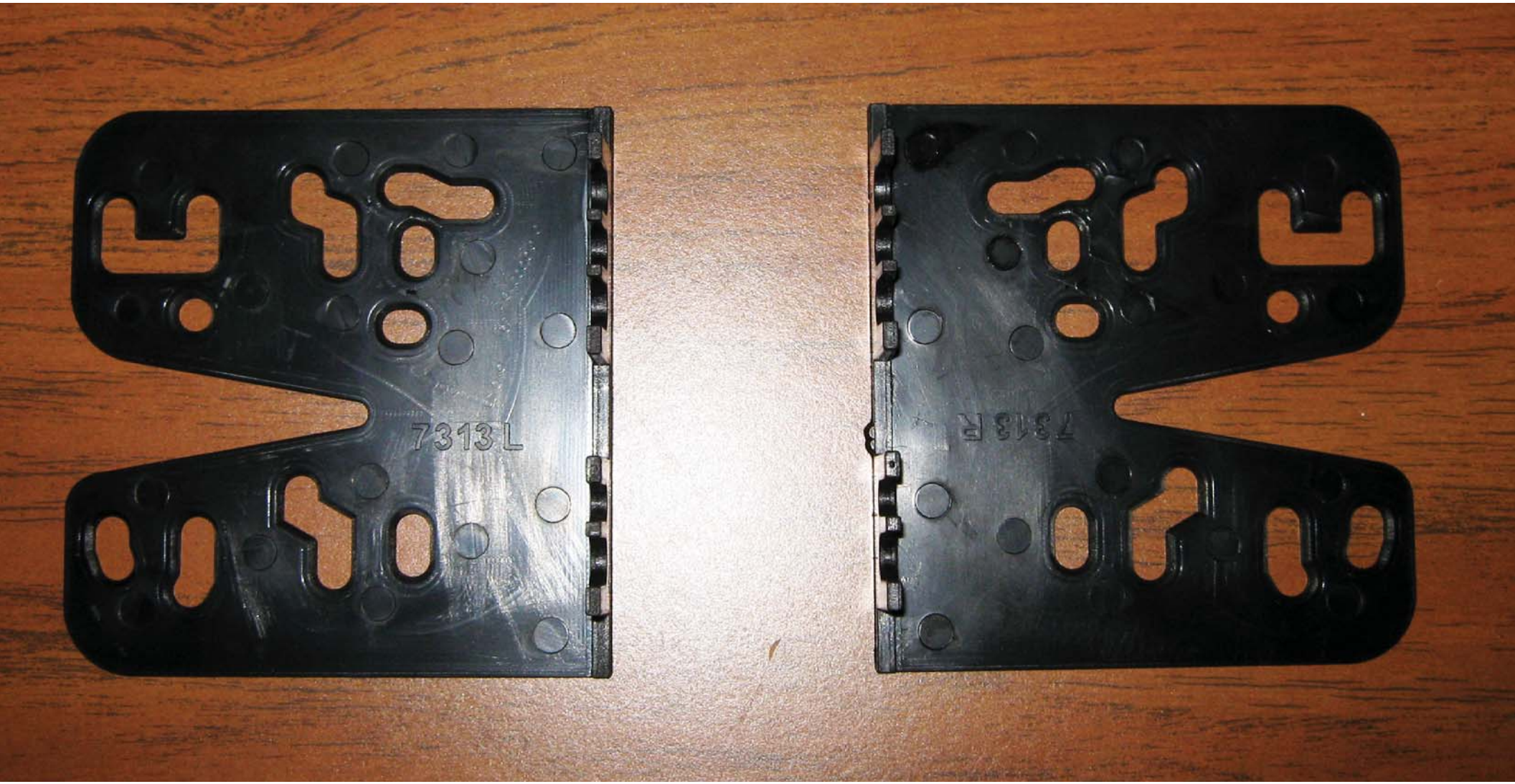
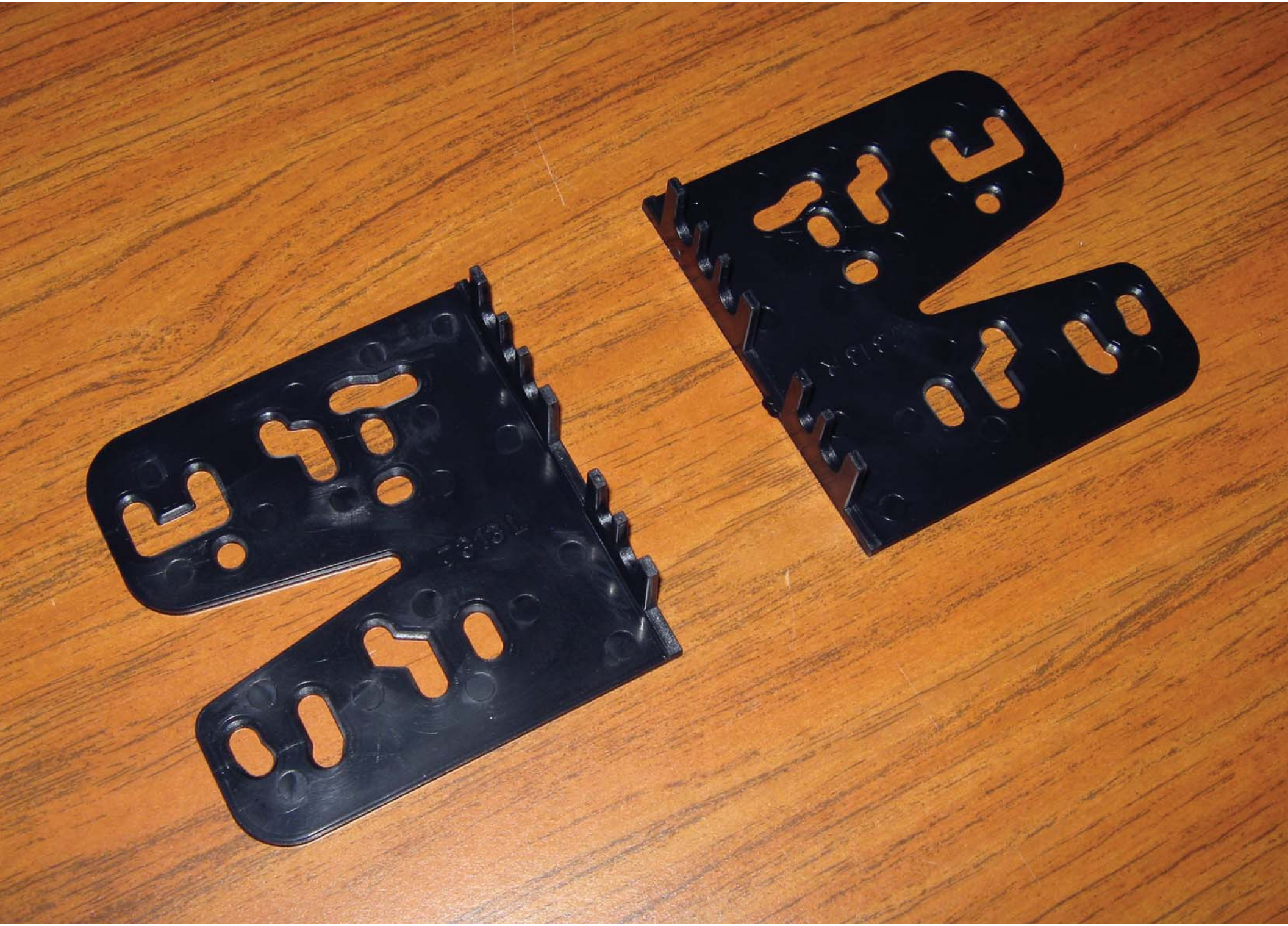

7313L
7313R



METRA RADIO TO AXXESS ASWC INTEGRATION

Thank you for purchasing METRA and AXXESS products! Below are the instructions on how to properly interface the ASWC with the METRA radio in your vehicle.

1. Find the ASWC installation instructions on www.axxessinterface.com.
2. Follow the instructions and wire the ASWC into your vehicles wiring harness.
3. Connect the ASWC to your METRA radio via the female 3.5mm adapter (p/n: LD-SWC-F3.5) that is included with the ASWC.
4. The brown wire from the female 3.5mm adapter (p/n: LD-SWC-F3.5) should be connected to the radios gray wire labeled “Steering Wheel Key 1.”
5. Tape up the brown/white wire from the female 3.5mm adapter as it is not used.
6. Tape up the white wire from the radio labeled “Steering Wheel Key 2” as it is not used.
7. Program the ASWC via the auto detect feature listed on the instructions you retrieved from the website
8. Once the led is solid red on the ASWC turn the vehicle off.
9. Then turn the vehicle on and wait for the led on the ASWC to turn off.
10. Immediately press and hold volume down on the steering wheel.
11. Wait for the led to come on and then release volume down.
12. Press volume up on the steering wheel 6 times; make sure that you get a led confirmation each time.
13. Once you have 6 led flashes from pressing volume up, press the volume down button on the steering wheel.
14. The led will turn solid red for a moment and then go off.
15. On the Metra radio enter the “Setup” menu and then go to “SWC Config.”
16. Press each of the steering wheel buttons one at a time and set them to what you want them to do on the METRA radio.
17. Once you have programmed each of your steering wheel buttons, press save and exit the menu.
18. Get to an audio source and test each of your controls.
19. Enjoy your steering wheel controls!

Thank you again for choosing METRA/AXXESS products, we hope that you enjoy your new radio!

METRA OE RADIOS

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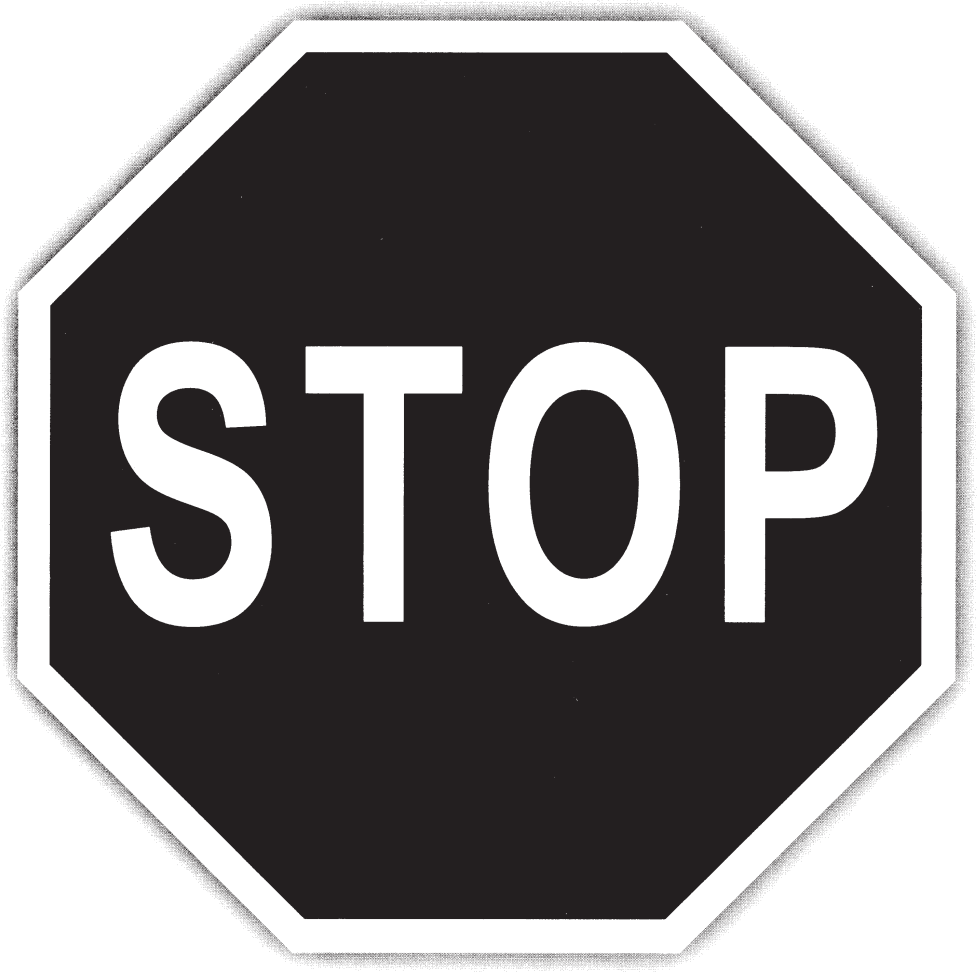

DO NOT RETURN TO STORE - CONTACT METRA FIRST

Please contact Metra Electronics technical support at **(800) 253-8324** or email us at **techsupport@metra-autosound.com** if you have any questions or issues with this product. We want to make sure you are happy with your Freeway purchase. Just have your receipt and serial number of the product handy so you can provide this required information to our customer service agent.

Always check your purchase for any missing items. All products ship complete but some times components may be removed prior to purchase.

Missing components can be easily shipped to the store from which you purchased and many times our customer service agents can quickly solve questions over the phone.

OE Direct Fit Radio
Limited Warranty
Valid in the United States and Canada

This 36 month limited warranty is provided by Metra Electronics Corporation for the Metra product identified by the purchaser's registration as indicated below, and there are no other warranties, expressed or implied, except as required by law, including warranties of merchantability and fitness for a specific purpose, that are provided for herein, however all such implied warranties, if any, are limited to the duration of this specific limited product warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Metra Electronics Corporation shall not be liable, under any circumstances, for incidental, indirect, special, and consequential or multiple damages as a result of the sale or use of this product. Some states/countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

It is recommended that the purchaser execute the product registration and warranty registration via the web within ten days of purchase.

Limited Product Warranty:

This is a 36 month limited warranty, subject to the conditions, limitations and exclusions identified herein. Metra Electronics Corporation warrants to the original purchaser of the registered or identified product for a period of three years from the date of purchase, that the product shall be free of defects in design, material and workmanship, and subject to the limitations set forth below; Metra Electronics Corporation will repair or replace, at its option, any defective unit. Metra hereby warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, prove to be defective in material or workmanship within three (3) years from date of original purchase, such defect(s) will be repaired or replaced with reconditioned product (Metra's option) without charge for parts and repair labor. Purchaser must return the product to Metra, return receipt requested or by other means that confirms delivery and Metra shall make the said repairs or replacement within 60 days of receipt. In some instances the product may have been discontinued and cannot be replaced, or repaired. In that instance Metra/Freeway shall in its discretion attempt to replace the product with a substantially similar product in model or design or pay the purchaser a sum for the then fair market value of the price, considering the amount of time since sale, and the use of the product. This Limited Warranty is the original retail purchaser's sole remedy for any and all such defect(s).

Conditions and Limitations:

1. Proof of purchase is required (i.e. the sales receipt of other proof of payment)

2. Damage caused by accidents, abuse, misuse or modification of the product will render this warranty null and void.
3. This warranty is applicable only to the original purchaser and is not assignable or transferable.
4. To obtain repairs or replacement under the terms of this warranty, please contact Metra at 1-800-221-0932 or visit www.metra-online.com. You will need to provide proof of purchase (dated receipt showing store where purchased) and product serial number in order to receive warranty service. The purchaser is required to send the product back to Metra Electronics Corp or to a designated repair center and the purchaser is responsible for all charges for shipping and handling.

This Limited Warranty does NOT cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, improper installation, lack of reasonable care, unauthorized repair or service, or if the model or serial number has been altered, tampered with, defaced or removed.
2. Initial installation or the removal and re-installation of product.
3. Cosmetic damage, damage that occurs in shipment, act of God or natural disaster.
4. Missing accessories or components.
5. Products used for any and all commercial purposes.

THE EXTENT OF METRA'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT AS PROVIDED ABOVE AND, IN NO EVENT SHALL METRA LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE ORIGINAL RETAIL PURCHASER FOR THE PRODUCT.

Any questions of Notifications regarding this warranty should be addressed to: Warranty Department, Metra Electronics Corporation, 460 Walker St., Holly, Hill, Florida, 32117.

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No person or representative is authorized to assume for Metra any liability other than expressed herein in connection with the sale of this product. Some jurisdictions do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from jurisdiction to jurisdiction.